

NUOR STEEL
حديد نور
www.nuorsteel.com



**PIONEERS IN TMT BAR
TECHNOLOGY**

STEEL BARS & BILLETS

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LEADERS IN STEEL

COMPANY OVERVIEW

Since 2010, **“NUOR STEEL”** has been trading in the steel industry. Later, the dream grew and became a goal. In the early part of 2014, Nuor Steel began installing their first SMS factory. In August 2016, they began their first commercial production of steel billets. The ambitious of the stakeholders didn't stop there. They had a vision of becoming one of the largest TMT Re-Bars Producers in the Middle East Region. In September 2020, we initiated an Expansion for installing & commissioning a TMT RE-Bar Rolling Mill Factory, and in 2023 Nuor steel Started their first commercial production of TMT bars.

The promise of Powering Ambition is built upon a solid foundation of:

- A commitment to creating long-term success
- A spirit of ingenuity and material sustainability
- Delivery of innovative solutions
- Actions and not just words
- Strong relationships not transactions





Vision

To be the leading producer and marketer of steel products in the Middle East.

Mission

To spread and reach out in every city of Kingdom of Saudi Arabia and be the sole choice of every Saudi Citizen when it comes to the trust-worthy construction material for their buildings and be known as Best TMT Bar in the Middle East by our consumers and continue to be their No. 1 Choice in the TMT Bars segment, while utilizing innovative technologies within an environment of motivated employees, focused on continuous improvement, highest business standards.

Why us?

Every bar We Produce is of Highest quality so the structures which are built spectacularly are long lasting.



State of the Art Technology



Crafted with Finest Raw materials



Exceptional Steel



In depth Testing and Tracking





TMT BARS

UNCOMPROMISING QUALITY

High tensile to yield strength ratios Owing to our international production standards, Nuor TMT Steel Bars have a unique blend of strength and ductility. Nuor TMT is superior as the loss is negligible and elongation values are higher than specified.



HIGHER STRENGTH



PERFECT ROUNDNESS



BENDING PROPERTIES



BETTER WELDABILITY



CORROSION RESISTANCE



EARTHQUAKE & SEISMIC RESISTANCE



**SUPERIOR METALLURGICAL
PROPERTIES**



HIGHER BONDING STRENGTH



TMT REBARS

Linear Mass and Number of Bars in Bundles

Diameter (mm)	Nominal Linear Mass Kg/m	Tolerance in Linear Mass	Number of 12 m Long Bars in a bundle of nominal weight of 2 Tons
08	0.395	- 5 %	422
10	0.617	- 5 %	270
12	0.888	- 5 %	188
14	1.208	- 5 %	138
16	1.578	- 5 %	106
18	1.998	- 5 %	83
20	2.466	- 5 %	68
25	3.853	- 5 %	43
32	6.313	- 5 %	26

Other specifications are possible. Please contact Sales & Marketing for details.



BILLET SPECIFICATIONS

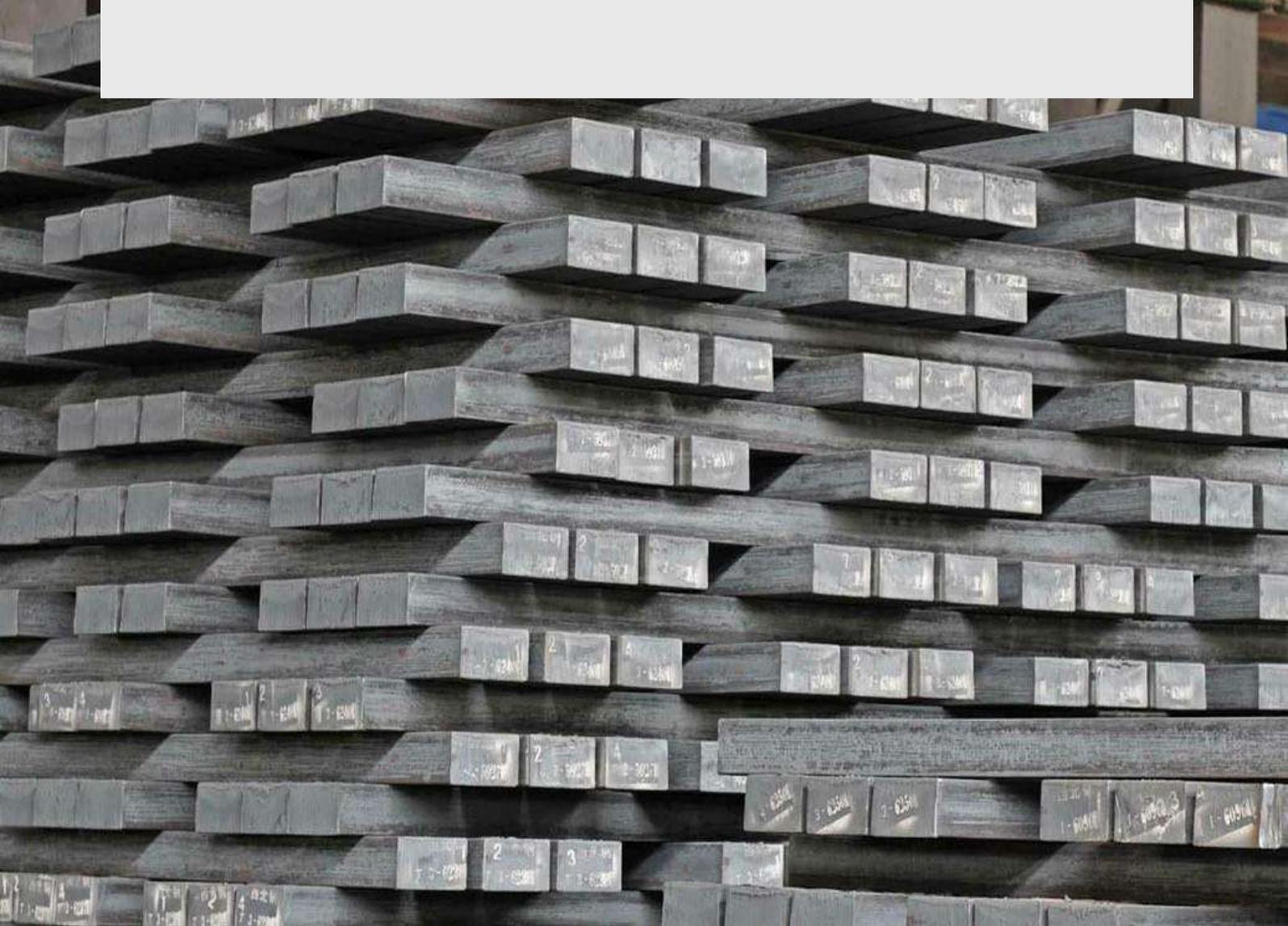
NUOR manufactures steel billets in accordance with international standards to provide steel products that meet specific customer requirements.

Chemical Composition % (max)

Billet Size (mm)	C +2%	Si +2%	Mn	P	S
100x100	0.24	0.20	.70	0.05	0.05
130x130	0.24	0.45	1.50	0.05	0.05

BILLETS

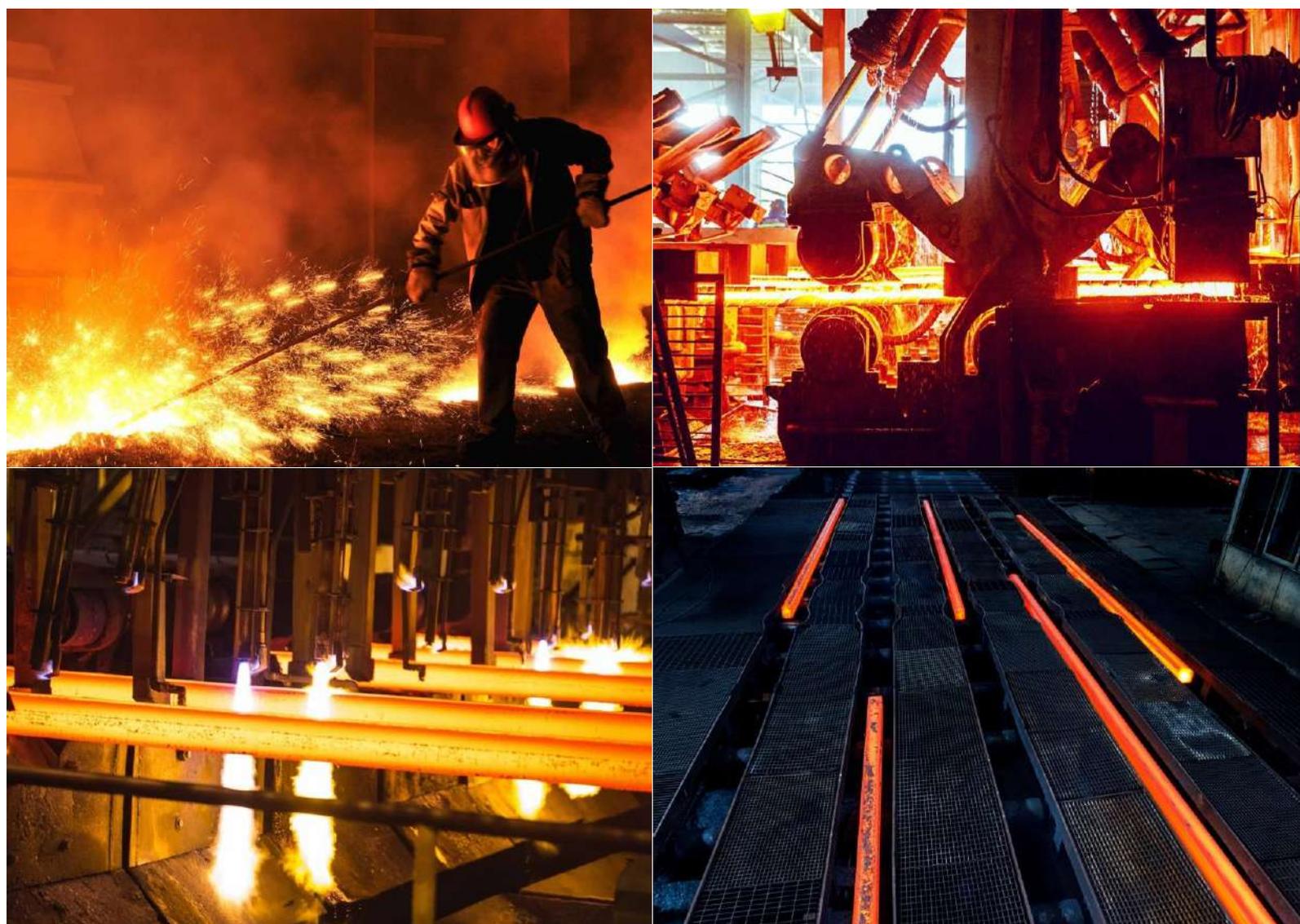
Billets are the raw material for producing long-steel products. They are produced in various grades and standards based on customer requirements.



INVESTMENT

IN EXCELLENCE

To lead the way in world steel markets, Nuor Steel recognizes the need to invest in the most advanced technology and the most talented and skilled people.



CONTINUOUS GROWTH STRATEGY PUTS QUALITY FIRST

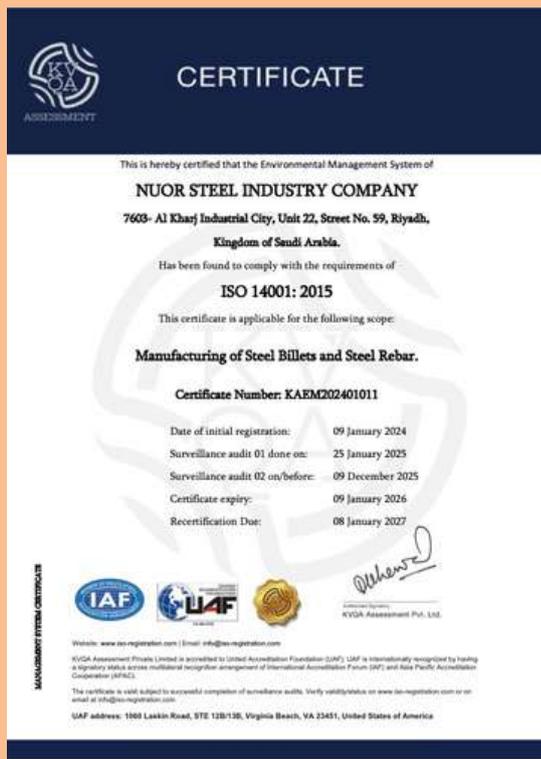
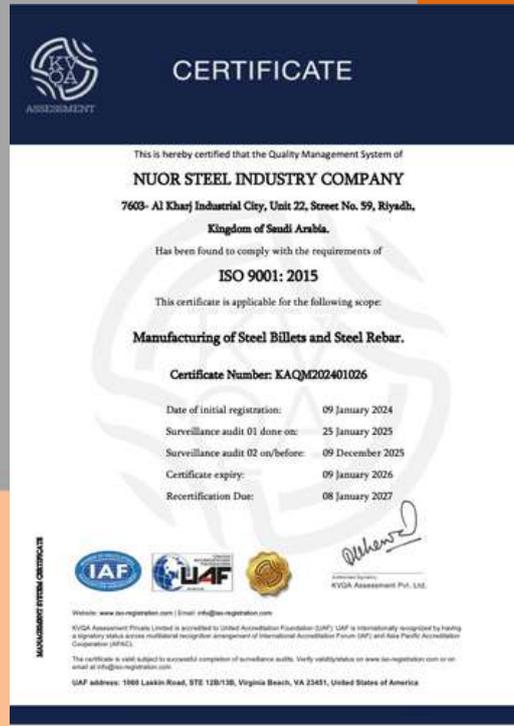
" NUOR STEEL IS A LEAN, EFFICIENT ORGANIZATION, EMPLOYING SKILLED PEOPLE TO PRODUCE LARGE VOLUMES OF STEEL, AND INVESTING IN THE VERY BEST TECHNOLOGY TO MAINTAIN OUR IMPRESSIVE QUALITY STANDARDS AND PRODUCTIVITY LEVELS."



Nuor Steel

Certifications

Our clients expect quality, efficiency and reliable deliveries. Nuor Steel Co. operations meet the requirements of a number of authorizations and certifications.



Nuor Steel

Certifications

رقم ترخيص الترخيص: 1 - License Version No.

شهادة ترخيص باستعمال علامة الجودة
License to use the Quality Mark

المواسقات السعودية
Saudi Standards SASO

License No. QM2311000047 رقم الترخيص

SASO affirms that this facility has fulfilled the highest product conformity requirements and has been granted the license to use the Saudi quality mark on the products listed in this certificate.

تشهد الهيئة السعودية للمواصفات والمقاييس والجودة بأن هذه المنشأة قد حققت أعلى معايير المطابقة للمنتجات وعليه تم ترخيصها باستعمال شعار علامة الجودة السعودية على المنتجات المذكورة في هذه الشهادة.

The Facility	شركة حديد نور للصناعة	المنشأة
Facility Address	المدينة الصناعية بالخرج	موقع المنشأة
Production Line address	المدينة الصناعية بالخرج مدن	موقع خط الإنتاج
Products in the license	1	عدد المنتجات في الترخيص
License Issue Date	16/11/2023	تاريخ إصدار الترخيص
License Renewal Date	-	تاريخ تجديد الترخيص
License Expiry Date	16/11/2026	تاريخ انتهاء الترخيص

للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت، وأي كسشط أو تغيير في هذه الشهادة يلغها.

To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.

المملكة العربية السعودية
Kingdom of Saudi Arabia

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1/2

"QUALITY

Is Everyone's

Responsibility"



المواصفات السعودية
Saudi Standards

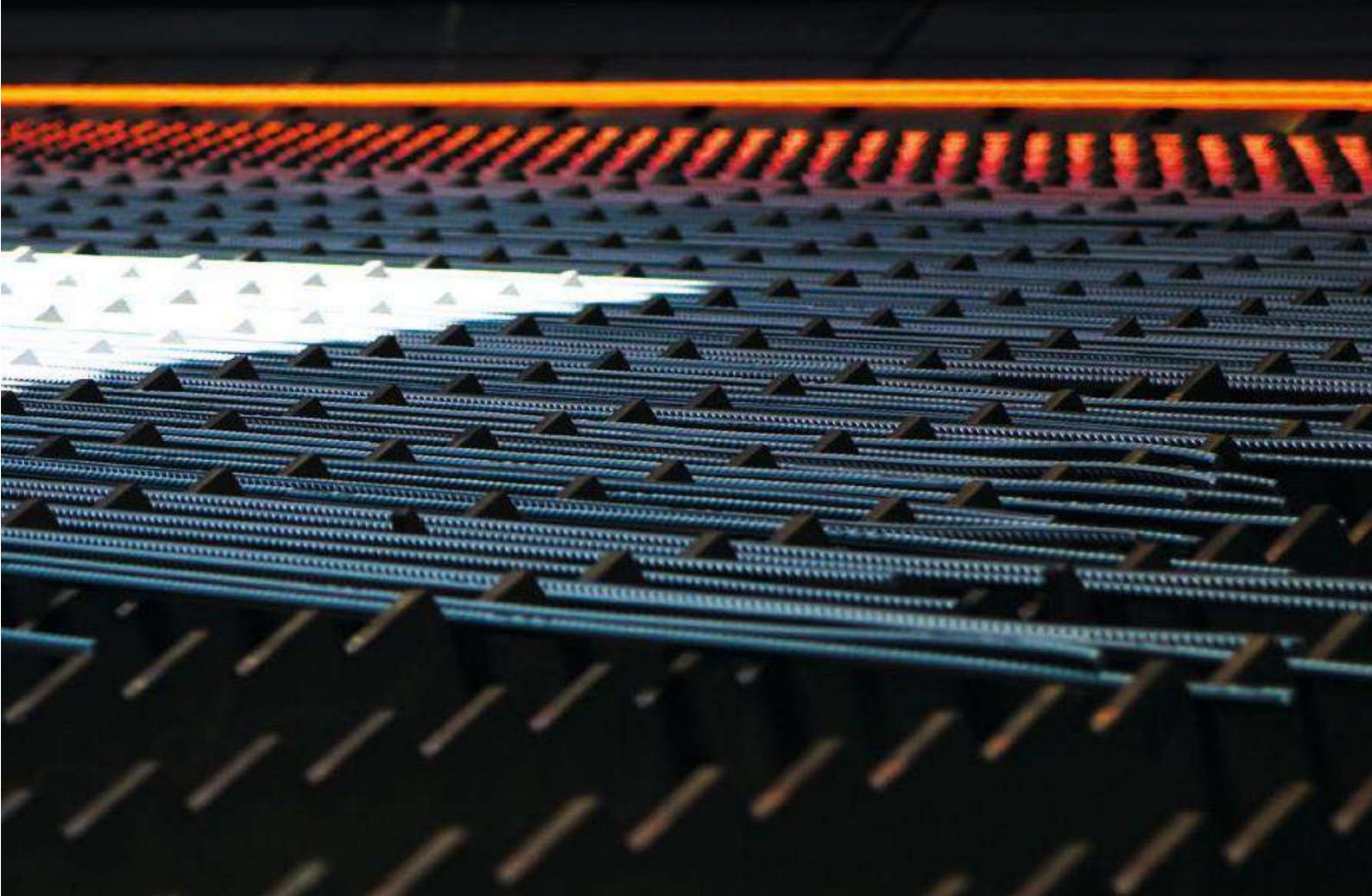


QUALITY ASSURANCE

METALLURGICAL PROCESS MAPPING WITH CHEMICAL ANALYSIS

- NUOR Steel is renowned for the consistent quality of its products. Such high standards are achieved through rigorous quality inspections, a policy of continuous improvement and a quality-management system.

EXCELLENCE THROUGH
RIGOROUS TESTING,
MONITORING AND CONTROL



ENVIRONMENTAL SUSTAINABILITY

IS OUR PRIORITY

Protecting our environment and our people is a commitment that influences everything we do at NUOR Steel.

NUOR STEEL, an environmentally conscious company, is committed to minimizing the ecological impact of its steel-production operations. The cleanliness of our environment is as important to us as the quality of our steel products. NUOR continuously monitors emissions and implements an effective environment-management program to ensure that we comply with – and exceed – global standards. Through sustainability programs, we contribute to the conservation of our environment and provide a better life for future generations

**Nuor Steel Co. Is Always
Committed Toward a Greener
Future.**

**“Act Responsible,
Think Sustainable”**

NUOR STEEL
حديد نور
www.nuorsteel.com



NUOR STEEL
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Contact Us:



Address

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رؤية
VISION

2030

المملكة العربية السعودية
KINGDOM OF SAUDI ARABIA



شهادة ترخيص باستعمال علامة الجودة

License to use the Quality Mark

License No.

QM2311000047

رقم الترخيص

SASO affirms that this facility has fulfilled the highest product conformity requirements and has been granted the license to use the Saudi quality mark on the products listed in this certificate.

تشهد الهيئة السعودية للمواصفات والمقاييس والجودة بأن هذه المنشأة قد حققت أعلى معايير المطابقة للمنتجات وعليه تم ترخيصها باستعمال شعار علامة الجودة السعودية على المنتجات المذكورة في هذه الشهادة.



The Facility

شركة حديد نور للصناعة

المنشأة

Facility Address

المدينة الصناعية بالخرج

موقع المنشأة

Production Line address

المدينة الصناعية بالخرج مدن

موقع خط الإنتاج

Products in the license

1

عدد المنتجات في الترخيص

License Issue Date

16/11/2023

تاريخ إصدار الترخيص

License Renewal Date

-

تاريخ تجديد الترخيص

License Expiry Date

16/11/2026

تاريخ انتهاء الترخيص



للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت، وأي كشط أو تغيير في هذه الشهادة يلغيها.

To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.





ملحق شهادة ترخيص باستعمال علامة الجودة

Appendix (License to use the Quality Mark)

The Facility	شركة حديد نور للصناعة	المنشأة
License No	QM2311000047	رقم الترخيص
License Issue Date	16/11/2023	تاريخ إصدار الترخيص
License Expiry Date	16/11/2026	تاريخ انتهاء الترخيص
Product	Deformed Carbon-Steel Bars for Concrete Reinforcement.	المنتج
Reference Standard	SASO ASTM A615	المواصفة القياسية

تاريخ المنح/التجديد/التوسيع Date of Grant/Renewal/Extension	العلامة التجارية Trademark	الصف Classification	م No.
16/11/2023	NUOR STEEL NS	60 GRADE	1



للتأكد من صحة هذه الشهادة يرجى زيارة موقعنا على الإنترنت، وأي كشط أو تغيير في هذه الشهادة يلغيها.

To verify this certification visit SASO website, and any changes or modification on this certificate will affect its validity.



CERTIFICATE

This is hereby certified that the Occupational Health & Safety Management System of

NUOR STEEL INDUSTRY COMPANY

7603- Al Kharj Industrial City, Unit 22, Street No. 59, Riyadh,
Kingdom of Saudi Arabia.

Has been found to comply with the requirements of

ISO 45001: 2018

This certificate is applicable for the following scope:

Manufacturing of Steel Billets and Steel Rebar.

Certificate Number: KAOH202401017

Date of initial registration: 09 January 2024

Surveillance audit 01 done on: 25 January 2025

Surveillance audit 02 on/before: 09 December 2025

Certificate expiry: 09 January 2026

Recertification Due: 08 January 2027



Authorised Signatory
KVQA Assessment Pvt. Ltd.

Website: www.iso-registration.com | Email: info@iso-registration.com

KVQA Assessment Private Limited is accredited to United Accreditation Foundation (UAF). UAF is internationally recognized by having a signatory status across multilateral recognition arrangement of International Accreditation Forum (IAF) and Asia Pacific Accreditation Cooperation (APAC).

The certificate is valid subject to successful completion of surveillance audits. Verify validity/status on www.iso-registration.com or on email at info@iso-registration.com

UAF address: 1060 Laskin Road, STE 12B/13B, Virginia Beach, VA 23451, United States of America



CERTIFICATE

This is hereby certified that the Environmental Management System of

NUOR STEEL INDUSTRY COMPANY

7603- Al Kharj Industrial City, Unit 22, Street No. 59, Riyadh,

Kingdom of Saudi Arabia.

Has been found to comply with the requirements of

ISO 14001: 2015

This certificate is applicable for the following scope:

Manufacturing of Steel Billets and Steel Rebar.

Certificate Number: KAEM202401011

Date of initial registration: 09 January 2024

Surveillance audit 01 done on: 25 January 2025

Surveillance audit 02 on/before: 09 December 2025

Certificate expiry: 09 January 2026

Recertification Due: 08 January 2027



Authorised Signatory
KVQA Assessment Pvt. Ltd.

Website: www.iso-registration.com | Email: info@iso-registration.com

KVQA Assessment Private Limited is accredited to United Accreditation Foundation (UAF). UAF is internationally recognized by having a signatory status across multilateral recognition arrangement of International Accreditation Forum (IAF) and Asia Pacific Accreditation Cooperation (APAC).

The certificate is valid subject to successful completion of surveillance audits. Verify validity/status on www.iso-registration.com or on email at info@iso-registration.com

UAF address: 1060 Laskin Road, STE 12B/13B, Virginia Beach, VA 23451, United States of America



CERTIFICATE

This is hereby certified that the Quality Management System of
NUOR STEEL INDUSTRY COMPANY

7603- Al Kharj Industrial City, Unit 22, Street No. 59, Riyadh,
Kingdom of Saudi Arabia.

Has been found to comply with the requirements of
ISO 9001: 2015

This certificate is applicable for the following scope:

Manufacturing of Steel Billets and Steel Rebar.

Certificate Number: KAQM202401026

Date of initial registration: 09 January 2024

Surveillance audit 01 done on: 25 January 2025

Surveillance audit 02 on/before: 09 December 2025

Certificate expiry: 09 January 2026

Recertification Due: 08 January 2027



Authorised Signatory
KVQA Assessment Pvt. Ltd.

Website: www.iso-registration.com | Email: info@iso-registration.com

KVQA Assessment Private Limited is accredited to United Accreditation Foundation (UAF). UAF is internationally recognized by having a signatory status across multilateral recognition arrangement of International Accreditation Forum (IAF) and Asia Pacific Accreditation Cooperation (APAC).

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UAF address: 1060 Laskin Road, STE 12B/13B, Virginia Beach, VA 23451, United States of America

ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH EN 15804+A2 & ISO 14025

STEEL REINFORCING BAR

NUOR STEEL
حديد نور



EPD HUB, HUB-3476

Published on 16.06.2025, last updated on 17.06.2025, valid until 15.06.2030



MANUFACTURER

Manufacturer	Nuor Steel Industry Company
Address	Street 59, Al Kharj Industrial City 16416, Saudi Arabia
Contact details	+966 54 378 1868
Email Address	info@nuorsteel.com
Website	https://nuorsteel.com/en

EPD STANDARDS, SCOPE AND VERIFICATION

Program operator	EPD Hub, hub@epdhub.com
Reference standard	EN 15804+A2:2019 and ISO 14025
PCR	EPD Hub Core PCR Version 1.1, 5 Dec 2023
Sector	Construction product
Category of EPD	Third party verified EPD
Scope of the EPD	Cradle to gate with modules C1-C4, D
EPD author	Osama Alhuzebi, Quality Techno Certification
EPD verification	Independent verification of this EPD and data, according to ISO 14025: <input type="checkbox"/> Internal verification <input checked="" type="checkbox"/> External verification
EPD verifier	Sarah Curpen, as an authorized verifier acting for EPD Hub Limited.

The manufacturer has the sole ownership, liability, and responsibility for the EPD. EPDs within the same product category but from different programs may not be comparable. EPDs of construction products may not be comparable if they do not comply with EN 15804 and if they are not compared in a building context.

PRODUCT

Product name	Steel Rebar
Product range	8 mm to 32 mm
Place of production	Saudi Arabia
Period for data	January 1 to December 31, 2024
Averaging in EPD	No averaging
Variation in GWP-fossil for A1-A3	-%

ENVIRONMENTAL DATA SUMMARY

Declared unit	1 kg of steel rebar
Declared unit mass	1 kg
GWP-fossil, A1-A3 (kgCO ₂ e)	1,43+00
GWP-total, A1-A3 (kgCO ₂ e)	1,43E+00
Secondary material, inputs (%)	14,8
Secondary material, outputs (%)	0
Total energy use, A1-A3 (kWh)	4,17
Net freshwater use, A1-A3 (m ³)	0,01

PRODUCT AND MANUFACTURER

ABOUT THE MANUFACTURER

Nuor Steel Industry Company (شركة حديد نور للصناعة) is a premier manufacturer of high-quality rebar, committed to shaping the future of the steel industry through innovation, sustainability, and excellence.

Based in the Kingdom of Saudi Arabia, we are proud to align with the nation's Vision 2030 by driving industrial growth, supporting infrastructure development, and fostering environmental responsibility. Our advanced manufacturing processes and state-of-the-art technology ensure the delivery of superior steel products that meet the evolving needs of our clients and contribute to building stronger, greener foundations.

As an ISO 9001:2015, ISO 14001:2015, and ISO 45001:2015 certified company, and with full SASO licensing, Nuor Steel guarantees the highest standards of quality, environmental stewardship, and occupational health and safety. These certifications reflect our unwavering commitment to excellence and our dedication to empowering industries with durable, reliable, and sustainable steel solutions.

PRODUCT DESCRIPTION

This EPD covers the rebar produced by Nuor Steel Industry Company. Rebar is a critical component in reinforced steel structures, essential for improving their strength and durability. Its ribbed surface design enhances its bond with concrete, ensuring a strong and reliable connection. With precise chemical composition and a carefully controlled manufacturing process.

Further information can be found at: <https://nuorsteel.com/en>

PRODUCT RAW MATERIAL MAIN COMPOSITION

Raw material category	Amount, mass %	Material origin
Metals	100%	Al Kharj Industrial City - Saudi Arabia
Minerals	-	
Fossil materials	-	
Bio-based materials	-	

BIOGENIC CARBON CONTENT

Product's biogenic carbon content at the factory gate

Biogenic carbon content in product, kg C	-
Biogenic carbon content in packaging, kg C	-

DECLARED UNIT

Declared unit	1 kg of steel rebar
Mass per declared unit	1 kg

SUBSTANCES, REACH - VERY HIGH CONCERN

The product does not contain any REACH SVHC substances in amounts greater than 0,1 % (1000 ppm).

PRODUCT LIFE-CYCLE

SYSTEM BOUNDARY

This EPD covers the life-cycle modules listed in the following table.

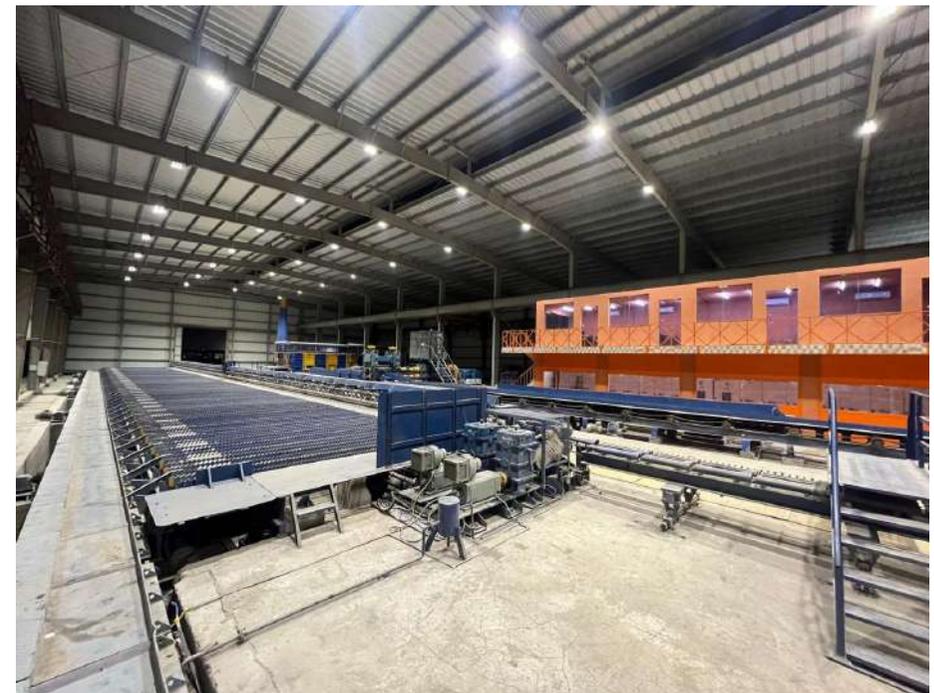
Product stage			Assembly stage		Use stage							End of life stage				Beyond the system boundaries		
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D		
X	X	X	MND	MND	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X		
Raw materials	Transport	Manufacturing	Transport	Assembly	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction/ demolition	Transport	Waste processing	Disposal	Reuse	Recovery	Recycling

Modules not declared = MND. Modules not relevant = MNR

MANUFACTURING AND PACKAGING (A1-A3)

The final product consists of steel rebar ranging from 8 mm to 32 mm in diameter, manufactured by Nuor Steel at its facility located in Al Kharj Industrial City. The production process begins with steel billets measuring 130x130 mm, sourced from multiple suppliers including Al Qaryan Steel Company, Power Steel Company, and Najd Steel Company. These billets have a recycled content of 38% pre-consumer and 42% post-consumer scrap. The

life cycle stages from A1 to A3 cover the full cradle-to-gate process. In A1 (raw material supply), the steel billets are produced and transported to the site. In A2 (transportation), the billets are delivered to Nuor Steel’s facility. A3 (manufacturing) includes reheating the billets in a furnace, followed by multi-stage rolling (roughing, intermediate, and finishing) to shape the rebar. After rolling, the bars undergo water cooling and air cooling for mechanical properties enhancement, followed by inspection, testing, bundling, and preparation for delivery. This streamlined production ensures consistency, quality, and compliance with sustainability principles.



TRANSPORT AND INSTALLATION (A4-A5)

This EPD does not cover this phase.

PRODUCT USE AND MAINTENANCE (B1-B7)

This EPD does not cover the use phase.

Air, soil, and water impacts during the use phase have not been studied.

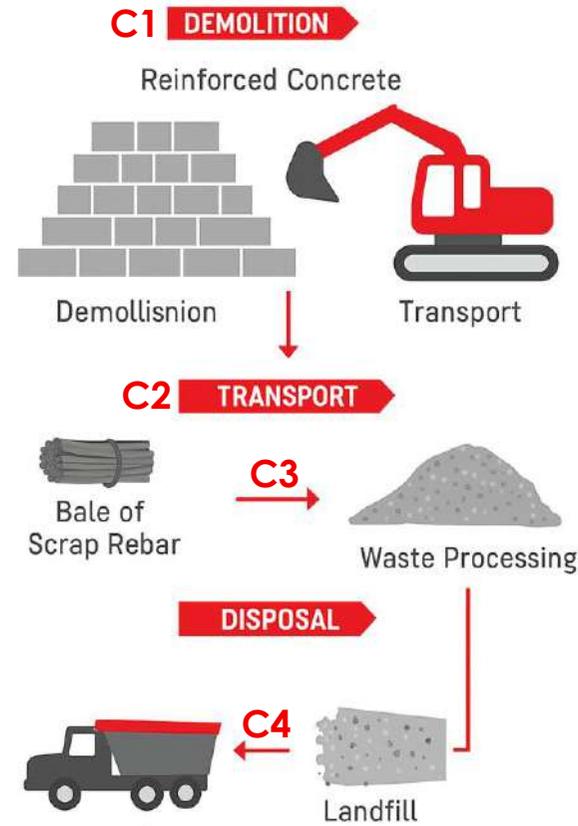
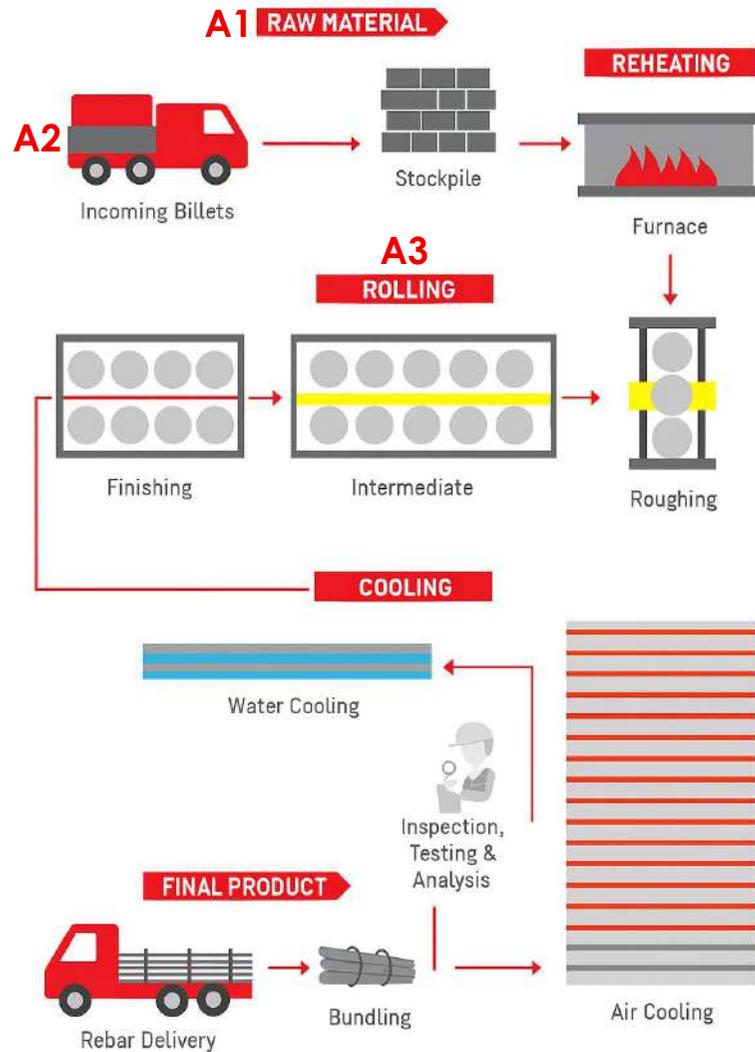
PRODUCT END OF LIFE (C1-C4, D)

The end-of-life stage for steel reinforcement begins with the demolition of the building, during which the product is removed and initially sorted onsite. The energy consumption of building machinery used in demolition is estimated at 0.01 kWh/kg of installed product. Following this, the discarded rebar is transported to either a recycling facility or a final disposal site.

The assumed distance to the waste treatment plant is 100 km as an average. Waste processing phase includes the collection and handling of material streams designated for reuse, recycling, or energy recovery. With a service life exceeding 60 years, rebar typically reaches the end of its lifecycle alongside the building's demolition. According to the latest World Steel report 2020, 85% of steel is sent for recycling, while 15% is disposed of in landfills.



MANUFACTURING PROCESS



- A1:** Raw material extraction
- A2:** Transportation to the factory
- A3:** Manufacturing process
- C1:** Demolition
- C2:** Transportation to the waste facility
- C3:** Waste processing
- C4:** Disposal

LIFE-CYCLE ASSESSMENT

CUT-OFF CRITERIA

The study does not exclude any modules or processes which are stated mandatory in the reference standard and the applied PCR. The study does not exclude any hazardous materials or substances. The study includes all major raw material and energy consumption. All inputs and outputs of the unit processes, for which data is available for, are included in the calculation. There is no neglected unit process more than 1% of total mass or energy flows. The module specific total neglected input and output flows also do not exceed 5% of energy usage or mass.

ALLOCATION, ESTIMATES AND ASSUMPTIONS

Allocation is required if some material, energy, and waste data cannot be measured separately for the product under investigation. All allocations are done as per the reference standards and the applied PCR. In this study, allocation has been done in the following ways:

Data type	Allocation
Raw materials	Allocated by mass
Packaging material	No allocation
Ancillary materials	Not applicable
Manufacturing energy and waste	Allocated by mass

AVERAGES AND VARIABILITY

Type of average	No averaging
Averaging method	Not applicable
Variation in GWP-fossil for A1-A3	Not applicable

This EPD is product and factory specific and does not contain average calculations.

LCA SOFTWARE AND BIBLIOGRAPHY

This EPD has been created using One Click LCA EPD Generator. The LCA and EPD have been prepared according to the reference standards and ISO 14040/14044. The EPD Generator uses Ecoinvent v3.10 and One Click LCA databases as sources of environmental data.

ENVIRONMENTAL IMPACT DATA

CORE ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP – total ¹⁾	kg CO ₂ e	1,40E+00	5,38E-04	3,05E-02	1,43E+00	MND	3,61E-03	1,08E-02	2,31E-02	9,37E-04	-1,01E+00								
GWP – fossil	kg CO ₂ e	1,40E+00	5,38E-04	3,04E-02	1,43E+00	MND	3,60E-03	1,08E-02	2,31E-02	9,36E-04	-1,01E+00								
GWP – biogenic	kg CO ₂ e	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
GWP – LULUC	kg CO ₂ e	6,94E-04	2,41E-07	1,17E-06	6,96E-04	MND	3,69E-07	4,82E-06	2,72E-05	5,35E-07	-4,87E-04								
Ozone depletion pot.	kg CFC ₋₁₁ e	5,90E-09	7,95E-12	4,63E-09	1,05E-08	MND	5,52E-11	1,59E-10	2,48E-10	2,71E-11	-4,03E-09								
Acidification potential	mol H ⁺ e	4,86E-03	1,84E-06	1,75E-04	5,04E-03	MND	3,25E-05	3,67E-05	2,47E-04	6,64E-06	-4,04E-03								
EP-freshwater ²⁾	kg Pe	4,77E-04	4,19E-08	3,92E-07	4,77E-04	MND	1,04E-07	8,38E-07	1,25E-05	7,70E-08	-3,72E-04								
EP-marine	kg Ne	1,12E-03	6,03E-07	3,39E-05	1,15E-03	MND	1,51E-05	1,21E-05	5,49E-05	2,53E-06	-8,64E-04								
EP-terrestrial	mol Ne	1,19E-02	6,56E-06	3,56E-04	1,23E-02	MND	1,65E-04	1,31E-04	6,19E-04	2,76E-05	-9,34E-03								
POCP (“smog”) ³⁾	kg NMVOCe	4,45E-03	2,70E-06	1,02E-04	4,55E-03	MND	4,93E-05	5,41E-05	1,82E-04	9,90E-06	-3,08E-03								
ADP-minerals & metals ⁴⁾	kg Sbe	1,08E-06	1,50E-09	1,29E-08	1,09E-06	MND	1,29E-09	3,00E-08	1,36E-06	1,49E-09	-7,65E-06								
ADP-fossil resources	MJ	1,40E+01	7,81E-03	4,30E-01	1,44E+01	MND	4,72E-02	1,56E-01	2,73E-01	2,30E-02	-9,75E+00								
Water use ⁵⁾	m ³ e depr.	6,50E-01	3,86E-05	1,62E-03	6,51E-01	MND	1,18E-04	7,72E-04	4,31E-03	6,63E-05	-2,62E-01								

1) GWP = Global Warming Potential; 2) EP = Eutrophication potential. Required characterisation method and data are in kg P-eq. Multiply by 3,07 to get PO4e; 3) POCP = Photochemical ozone formation; 4) ADP = Abiotic depletion potential; 5) EN 15804+A2 disclaimer for Abiotic depletion and Water use and optional indicators except Particulate matter and Ionizing radiation, human health. The results of these environmental impact indicators shall be used with care as the uncertainties on these results are high or as there is limited experience with the indicator.

ADDITIONAL (OPTIONAL) ENVIRONMENTAL IMPACT INDICATORS – EN 15804+A2

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Particulate matter	Incidence	1,18E-07	5,39E-11	1,13E-09	1,19E-07	MND	9,25E-10	1,08E-09	3,45E-09	1,51E-10	-9,04E-08								
Ionizing radiation ⁶⁾	kBq 11235e	2,80E-02	6,80E-06	8,20E-04	2,88E-02	MND	2,09E-05	1,36E-04	9,79E-04	1,44E-05	-2,06E-02								
Ecotoxicity (freshwater)	CTUe	3,93E+00	1,10E-03	1,75E-01	4,11E+00	MND	2,60E-03	2,21E-02	1,58E-01	1,93E-03	-3,13E+00								
Human toxicity, cancer	CTUh	1,48E-09	8,88E-14	6,30E-12	1,49E-09	MND	3,71E-13	1,78E-12	1,85E-11	1,73E-13	-1,14E-09								
Human tox. non-cancer	CTUh	5,71E-09	5,06E-12	8,79E-11	5,80E-09	MND	5,87E-12	1,01E-10	1,18E-09	3,97E-12	-8,75E-09								
SQP ⁷⁾	-	3,13E+00	7,87E-03	4,34E-03	3,15E+00	MND	3,30E-03	1,57E-01	5,16E-01	4,52E-02	-3,20E+00								

6) EN 15804+A2 disclaimer for Ionizing radiation, human health. This impact category deals mainly with the eventual impact of low-dose ionizing radiation on human health of the nuclear fuel cycle. It does not consider effects due to possible nuclear accidents, occupational exposure nor due to radioactive waste disposal in underground facilities. Potential ionizing radiation from the soil, from radon and from some construction materials is also not measured by this indicator; 7) SQP = Land use related impacts/soil quality.

USE OF NATURAL RESOURCES

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Renew. PER as energy ⁸⁾	MJ	5,59E-01	1,07E-04	1,47E-03	5,61E-01	MND	2,99E-04	2,14E-03	4,24E-02	2,22E-04	-9,61E-01								
Renew. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Total use of renew. PER	MJ	5,59E-01	1,07E-04	1,47E-03	5,61E-01	MND	2,99E-04	2,14E-03	4,24E-02	2,22E-04	-9,61E-01								
Non-re. PER as energy	MJ	1,40E+01	7,81E-03	4,30E-01	1,44E+01	MND	4,72E-02	1,56E-01	2,73E-01	2,30E-02	-9,75E+00								
Non-re. PER as material	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Total use of non-re. PER	MJ	1,40E+01	7,81E-03	4,30E-01	1,44E+01	MND	4,72E-02	1,56E-01	2,73E-01	2,30E-02	-9,75E+00								
Secondary materials	kg	1,48E-01	3,32E-06	5,41E-06	1,48E-01	MND	1,96E-05	6,65E-05	3,16E-04	5,78E-06	-8,72E-02								
Renew. secondary fuels	MJ	5,83E-05	4,22E-08	4,48E-09	5,84E-05	MND	5,12E-08	8,45E-07	1,43E-05	1,20E-07	-1,16E-04								
Non-ren. secondary fuels	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Use of net fresh water	m ³	1,44E-02	1,15E-06	1,98E-04	1,46E-02	MND	3,12E-06	2,31E-05	1,19E-04	2,39E-05	-5,67E-03								

8) PER = Primary energy resources.

END OF LIFE – WASTE

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	2,66E-01	1,32E-05	1,03E-04	2,66E-01	MND	5,25E-05	2,65E-04	2,13E-03	2,54E-05	-4,09E-01								
Non-hazardous waste	kg	2,68E+00	2,45E-04	4,44E-03	2,68E+00	MND	7,15E-04	4,90E-03	5,98E-02	5,80E-04	-2,10E+00								
Radioactive waste	kg	6,80E-06	1,67E-09	1,31E-06	8,12E-06	MND	5,12E-09	3,33E-08	2,41E-07	3,52E-09	-5,11E-06								

END OF LIFE – OUTPUT FLOWS

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Materials for recycling	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Materials for energy rec	kg	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Exported energy	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Exported energy – Electricity	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								
Exported energy – Heat	MJ	0,00E+00	0,00E+00	0,00E+00	0,00E+00	MND	0,00E+00	0,00E+00	0,00E+00	0,00E+00	0,00E+00								

ENVIRONMENTAL IMPACTS – EN 15804+A1, CML

Impact category	Unit	A1	A2	A3	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Global Warming Pot.	kg CO ₂ e	1,39E+00	5,35E-04	2,98E-02	1,42E+00	MND	3,59E-03	1,07E-02	2,30E-02	9,28E-04	-1,00E+00								
Ozone depletion Pot.	kg CFC ₁₁ e	5,24E-09	6,34E-12	3,63E-09	8,88E-09	MND	4,37E-11	1,27E-10	2,06E-10	2,15E-11	-3,59E-09								
Acidification	kg SO ₂ e	3,92E-03	1,40E-06	1,43E-04	4,06E-03	MND	2,29E-05	2,80E-05	1,99E-04	4,91E-06	-3,28E-03								
Eutrophication	kg PO ₄ ³ e	6,88E-04	3,41E-07	1,32E-05	7,02E-04	MND	5,34E-06	6,83E-06	2,83E-05	1,56E-06	-5,48E-04								
POCP (“smog”)	kg C ₂ H ₄ e	5,87E-04	1,25E-07	5,73E-06	5,93E-04	MND	1,71E-06	2,50E-06	1,18E-05	4,65E-07	-4,36E-04								
ADP-elements	kg Sbe	9,86E-07	1,46E-09	1,28E-08	1,00E-06	MND	1,26E-09	2,93E-08	1,36E-06	1,46E-09	-7,59E-06								
ADP-fossil	MJ	1,36E+01	7,70E-03	4,30E-01	1,40E+01	MND	4,68E-02	1,54E-01	2,57E-01	2,28E-02	-9,43E+00								

VERIFICATION STATEMENT

VERIFICATION PROCESS FOR THIS EPD

This EPD has been verified in accordance with ISO 14025 by an independent, third-party verifier by reviewing results, documents and compliancy with reference standard, ISO 14025 and ISO 14040/14044, following the process and checklists of the program operator for:

- This Environmental Product Declaration
- The Life-Cycle Assessment used in this EPD
- The digital background data for this EPD

Why does verification transparency matter? Read more online

This EPD has been generated by One Click LCA EPD generator, which has been verified and approved by the EPD Hub.

THIRD-PARTY VERIFICATION STATEMENT

I hereby confirm that, following detailed examination, I have not established any relevant deviations by the studied Environmental Product Declaration (EPD), its LCA and project report, in terms of the data collected and used in the LCA calculations, the way the LCA-based calculations have been carried out, the presentation of environmental data in the EPD, and other additional environmental information, as present with respect to the procedural and methodological requirements in ISO 14025:2010 and reference standard.

I confirm that the company-specific data has been examined as regards plausibility and consistency; the declaration owner is responsible for its factual integrity and legal compliance.

I confirm that I have sufficient knowledge and experience of construction products, this specific product category, the construction industry, relevant standards, and the geographical area of the EPD to carry out this verification.

I confirm my independence in my role as verifier; I have not been involved in the execution of the LCA or in the development of the declaration and have no conflicts of interest regarding this verification.

Sarah Curpen, as an authorized verifier acting for EPD Hub Limited.
16.06.2025



HPD UNIQUE IDENTIFIER: 49348468413440

CLASSIFICATION: 03 21 00 Reinforcement Bars

PRODUCT DESCRIPTION: Nuor Steel Industry Company, based in the Kingdom of Saudi Arabia, is a leading manufacturer of high-quality carbon steel reinforcing bars (rebars), produced in nominal sizes from 8 mm to 32 mm. The company supports Vision 2030 through its commitment to innovation, sustainability, and infrastructure development. Using advanced manufacturing technologies. Rebars are made from pre-heated steel billets and hot-rolled to achieve the required mechanical properties. The declared unit is 1 ton of rebar, intended for use in concrete applications such as buildings, bridges, tunnels, and other civil infrastructure. Nuor Steel is certified to ISO 9001:2015, ISO 14001:2015, and ISO 45001:2015, demonstrating its commitment to quality, environmental responsibility, and occupational health and safety.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities Evaluation	<i>For all contents above the threshold, the manufacturer has:</i>
<input type="radio"/> Nested Materials Method	<input checked="" type="radio"/> 100 ppm	<input checked="" type="radio"/> Completed	Characterized <input checked="" type="radio"/> Yes <input type="radio"/> No
<input checked="" type="radio"/> Basic Method	<input type="radio"/> 1,000 ppm	<input type="radio"/> Partially Completed	<i>Provided weight and role.</i>
Threshold Disclosed Per	<input type="radio"/> Per GHS SDS	<input type="radio"/> Not Completed	Screened <input checked="" type="radio"/> Yes <input type="radio"/> No
<input type="radio"/> Material	<input type="radio"/> Other	Explanation(s) provided :	<i>Provided screening results using HPDC-approved methods.</i>
<input checked="" type="radio"/> Product		<input checked="" type="radio"/> Yes <input type="radio"/> No	Identified <input type="radio"/> Yes <input checked="" type="radio"/> No
			<i>Provided name and CAS RN or other identifier.</i>

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

NUOR STEEL - REBAR [IRON, ELEMENTAL LT-P1] END
MANGANESE LT-P1] END | MUL | REP | MAM | AQU CARBON LT-UNK
SILICON NoGS PHOSPHORUS BM-2] MAM | PHY | EYE | AQU | SKI
SULFUR, PRECIPITATED LT-UNK] SKI | MAM]

Number of Greenscreen BM-4/BM3 contents ... 0
Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

All interior components of the product have been thoroughly screened through a detailed Life Cycle Assessment (LCA) and are documented in the Substances and Materials section of the Health Product Declaration (HPD).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: Inherently non-emitting source per LEED

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2025-05-24

PUBLISHED DATE: 2025-06-04

EXPIRY DATE: 2028-05-24

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

NUOR STEEL - REBAR

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: The concrete reinforcement steel bars are primarily iron-based alloys containing controlled additions of Carbon (0.18–0.40%), Silicon (0.20–0.40%), and Manganese (0.50–1.20%). These alloying elements are carefully adjusted to achieve the required mechanical strength and physical performance characteristics. Small amounts of Phosphorus and Sulfur, each limited to a maximum of 0.05%, are also present. These, along with any other trace elements, are considered residuals or impurities typically originating from input scrap materials. It is important to note that all elements are either present in solid solution or chemically bonded forms and are not released into the environment under normal service or working conditions.

OTHER PRODUCT NOTES:

IRON, ELEMENTAL

ID: 7439-89-6

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: 2025-06-02 2:57:35

#: 97.0000 - 99.0000

GreenScreen: **LT-P1**

RC: **Both**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

END

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: The composition of the iron includes 38% recycled content from pre-consumer sources and 42% from post-consumer sources.

MANGANESE

ID: 7439-96-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: 2025-06-02 3:02:21

#: 0.5000 - 1.2000

GreenScreen: **LT-P1**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
MUL	German FEA - Substances Hazardous to Waters	Class 3 - Severe Hazard to Waters
REP	GHS - Japan	H360 - May damage fertility or the unborn child [Toxic to reproduction - Category 1B]
MAM	GHS - Japan	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organs/systemic toxicity following repeated exposure - Category 1]
MAM	GHS - Australia	H372 - Causes damage to organs through prolonged or repeated exposure [Specific target organ toxicity - repeated exposure - Category 1]
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 3
AQU	GHS - Japan	H401 - Toxic to aquatic life [Hazardous to the aquatic environment (acute) - Category 2]
AQU	GHS - Japan	H411 - Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment (chronic) - Category 2]
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Biological and Environmentally Released Materials
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Children's Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024 Children's Toy Products

SUBSTANCE NOTES:

CARBON

ID: 7440-44-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library**

HAZARD SCREENING DATE: **2025-06-02 2:59:59**

#: **0.1800 - 0.4000**

GreenScreen: **LT-UNK**

RC: **None**

NANO: **No**

SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials

SUBSTANCE NOTES:

SILICON

ID: 11125-27-2

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-02 3:01:43**

%: **0.2000 - 0.4000** GreenScreen: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Alloy element**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES:

PHOSPHORUS

ID: 7723-14-0

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-02 3:03:13**

%: **0.0000 - 0.0500** GreenScreen: **BM-2** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
MAM	US EPA - EPCRA Extremely Hazardous Substances	Extremely Hazardous Substances
MAM	GHS - New Zealand	Specific target organ toxicity - repeated exposure category 1
PHY	GHS - New Zealand	Pyrophoric solids category 1
EYE	GHS - New Zealand	Serious eye damage category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - acute category 1
AQU	GHS - New Zealand	Hazardous to the aquatic environment - chronic category 1
MAM	Québec CSST - WHMIS 1988	Class D1A - Very toxic material causing immediate and serious toxic effects
SKI	GHS - New Zealand	Skin corrosion category 1A
MAM	GHS - New Zealand	Acute dermal toxicity category 1
MAM	GHS - New Zealand	Acute inhalation toxicity category 1
MAM	GHS - New Zealand	Acute oral toxicity category 1

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.0 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022 Cosmetics & Personal Care Products
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPII)	C2C Certified v4.1 Product Standard Restricted Substances - Effective July 1, 2024 Cosmetics and Personal Care Products

SUBSTANCE NOTES:

SULFUR, PRECIPITATED

ID: **7704-34-9**

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2025-06-02 3:03:56**

%: **0.0000 - 0.0500** GreenScreen: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Impurity**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	EU - GHS (H-Statements) Annex 6 Table 3-1	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
SKI	GHS - New Zealand	Skin irritation category 2
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes Precautionary List Antimicrobials

SUBSTANCE NOTES:

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS	Inherently non-emitting source per LEED	
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2025-06-02 00:00:00	CERTIFIER OR LAB: None
APPLICABLE FACILITIES: All	EXPIRY DATE:	
CERTIFICATE URL:		
CERTIFICATION AND COMPLIANCE NOTES:		

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

Nuor Steel Industry Company is a premier manufacturer of high-quality rebar, committed to shaping the future of the steel industry through innovation, sustainability, and excellence.

Based in the Kingdom of Saudi Arabia, we are proud to align with the nation's Vision 2030 by driving industrial growth, supporting infrastructure development, and fostering environmental responsibility. Our advanced manufacturing processes and state-of-the-art technology ensure the delivery of superior steel products that meet the evolving needs of our clients and contribute to building stronger, greener foundations.

As an ISO 9001:2015, ISO 14001:2015, and ISO 45001:2015 certified company, and with full SASO licensing, Nuor Steel guarantees the highest standards of quality, environmental stewardship, and occupational health and safety. These certifications reflect our unwavering commitment to excellence and our dedication to empowering industries with durable, reliable, and sustainable steel solutions.

MANUFACTURER INFORMATION

MANUFACTURER: **QTC**
 ADDRESS: **Street 59, Al Kharj Industrial City 16416**
Al-Kharj, Al-Kharj 16416
 COUNTRY: **Saudi Arabia**

WEBSITE: **https://nuorsteel.com/en**
 CONTACT NAME: **Nuor Steel Industry Company**
 TITLE: **Admin Department**
 PHONE: **+966 54 378 1868**
 EMAIL: **info@nuorsteel.com**

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible 1 (Possible Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS No GreenScreen.
BM-U Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material
Nested Method / Product Threshold Substances listed within each material per threshold indicated per product
Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology
Third Party Verified Verification by independent certifier approved by HPDC
Preparer Third party preparer, if not self-prepared by manufacturer
Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and



TEST REPORT FOR TENSILE STRENGTH OF STEEL REBARS

Owner	Nour Steel Industry Company	ACES Report No.	RH.MMR24033368
Contractor	Nour Steel Industry Company	Date Reported	14-10-24
Consultant	N.P	Request No.	RH.MMO24008401
Project No.	Not Provided	Sample No.	RH.MMS24011227
Project Name	Internal Quality System	Client's Ref./IR No.	Request dated 12/10/2024
Sample Descr.	Steel Bar Of Dia 14 mm	Sampling Date	12-10-24
Steel Grade	Grade 60[420]	Sampling Method	ASTM A370-22
Origin	KSA	Sampling Certificate	N/A
Source	Nour Steel Industry Company	Sampled By	CLIENT'S REP.
Sample Location	Steel Factory	Sample Size	1 Nos
Test Method(s)	ASTM A370-22	Sample Brt. in by	CLIENT'S REP.
Specification Code	ASTM A 615/A615M -22	Date Received	12-10-24
Method Variation	Nil	Date Tested	14-10-24
		Tested By	ASIF KHAN
Remarks	The tensile test results indicated that the tested samples have satisfied the requirements of project for grade 420(60) steel in accordance to ASTM A 615/A615M-22.	Reviewed by	A.Shaaban (RY-103)
		Test Location	ACES Riyadh
		Lab. Location	ACES Riyadh
		Reported By	Eng. Hassan RY- 1334

N.P. indicates information not provided by the Client.

SpecNo	Heat/Cast No.	Nom. Size (mm)	Nominal Area (mm ²)	Mass / Unit Length (kg/m)	Yield Strength (0.5% Total Strain) (N/mm ²)	Tensile Strength (N/mm ²)	Elongation in 200mm (%)
1	-	14	153.90	1.146	486	609	19

According to SASO

Technical Regulation for Building Materials - Part 1:
Annex No. (1)

A) List of Metals and Metal Alloys Products for Constructions and Buildings and Relevant Standards
For Carbon Steel Bars- Standard Specification for Deformed and Plain Carbon Steel Bars For Concrete Reinforcement is :-
SASO ASTM A615M

ASTM A 615/A615M-22 Specification Requirements

	Grade 40 [280] ^A	Grade 60 [420]	Grade 80 [550]	Grade 100 [690]
Tensile strength, min, psi [MPa]	60 000 [420]	90 000 [550]	100 000 [690]	115 000 [790]
Yield strength, min, psi [MPa]	40 000 [280]	60 000 [420]	80 000 [550]	100 000 [690]
Ratio of actual tensile strength to actual yield strength, min	1.10	1.10	1.10	1.10
Elongation in 8 in. [200 mm], min, %				
Bar Designation No.				
3 [10]	11	0	7	7
4, 5 [12, 18]	12	0	7	7
6 [10]	12	0	7	7
7, 8 [22, 25]	...	8	7	7
9, 10, 11 [20, 32, 36]	...	7	6	6
14, 18, 20 [43, 57, 64]	...	7	6	6

^A Grade 40 [280] bars are furnished only in sizes 3 through 6 [10 through 19].

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A 615/ 615M-22
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Notes:

- *The test results represent the submitted sample only.
- *Test results shall not be interpreted, reproduced or quoted in a whole or in part without prior written approval of ACES
- *ACES is responsible for all information provided in the report which resulted from our activities but except for any information provided by the Customer or resulted from activities performed by another entity.
- * Decision Rule : Simple Acceptance

"End of the Report"

Materials Department Manager
Arab Company for Laboratories and Soil
ACES Riyadh



TEST REPORT FOR BENDING OF STEEL BARS

ACES Client	Nour Steel Industry Company	Report No.	RH.MMR24033369
Project Owner	Nour Steel Industry Company	Date Reported	14-10-24
Project Contractor	Nour Steel Industry Company	Sample No.	RH.MMS24011227
Project Consultant	N.P	Order No.	RH.MMO24008401
Project No.	Not Provided	Client Reference	Receipt No. 38488 dated 14-Oct-2024 dated 14-Oct-2024
Project Name	Internal Quality System	RFI/WIR No.	N.P.
Sample Description	Steel Bars 14mm	Sampled By	CLIENT'S REP.
Sample Source	Nour Steel Industry Company	Sampling Date	12-10-24
Sample Condition	N/A	Steel Grade	Grade 60[420]
Sample Location	Steel Factory	Sampling Cert.	N/A
Lot No.	N/A	Sampling Method	ASTM A370-22
Lot Size.	N/A	Sample Size	1 Nos
Sample Preparation	N.P	Sample Brt. In By	CLIENT'S REP.
Test Method	ASTM A615/A615M -22	Date Received	12-10-24
Test Method Var.	N.P	Date Tested	12-10-24
Test Location	Site KSA	Tested By	HASSAN HAIDER
Equipment Used	UTM	Equipment No.	N.P
Lab Location	Site KSA	Specification Code	SASO- ASTM A615/A615M -22

Test Results:

Specimen No.	Heat/Cast No.	Nom. Size (mm)	Bend @180°	
			Former Dia.	Result
1	-	14	3.5d	Satisfactory

ASTM A615-22 Specification Requirements:
BEND
<i>Specimens shall show no sign of fracture when tested as specified.</i>

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A 615/ A615M-22(Grade 420)
Remark:	Nil		

Notes:

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- * In case ACES is not provided with a specific decision rule, the conformity statement, if included in the test reports, will be based on the Simple Acceptance Rule as per ILAC -G8:09/2019 clause 5.2 Table 1.
- * Conformity provided is specific only to the tested items and testing results and does not entail any additional judgment under the

"End of the Report"

Materials Department
Arab Company for Laboratories and Soil
ACES Riyadh



TEST REPORT FOR BENDING OF STEEL BARS

ACES Client	Nour Steel Industry Company	Report No.	RH.MMR24033371
Project Owner	Nour Steel Industry Company	Date Reported	14-10-24
Project Contractor	Nour Steel Industry Company	Sample No.	RH.MMS24011228
Project Consultant	N.P	Order No.	RH.MMO24008401
Project No.	Not Provided	Client Reference	Receipt No. 38488 dated 14-Oct-2024 dated 14-Oct-2024
Project Name	Internal Quality System	RFI/WIR No.	N.P.
Sample Description	Steel Bars 16mm	Sampled By	CLIENT'S REP.
Sample Source	Nour Steel Industry Company	Sampling Date	12-10-24
Sample Condition	N/A	Steel Grade	Grade 60[420]
Sample Location	Steel Factory	Sampling Cert.	N/A
Lot No.	N/A	Sampling Method	Not Provided
Lot Size.	N/A	Sample Size	1 No.
Sample Preparation	N.P	Sample Brt. In By	CLIENT'S REP.
Test Method	ASTM A615/A615M -22	Date Received	12-10-24
Test Method Var.	N.P	Date Tested	12-10-24
Test Location	ACES MAIL LAB RIYADH	Tested By	HASSAN HAIDER
Equipment Used	UTM	Equipment No.	N.P
Lab Location	ACES MAIL LAB RIYADH	Specification Code	SASO- ASTM A615/A615M -22

Test Results:

Specimen No.	Heat/Cast No.	Nom. Size (mm)	Bend @180°	
			Former Dia.	Result
1	-	16	3.5d	Satisfactory

ASTM A615-22 Specification Requirements:
BEND
<i>Specimens shall show no sign of fracture when tested as specified.</i>

CONCLUSION	Pass	Standard of conclusion	ASTM A 615/ A615M-22(Grade 420)
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Remark:	Nil
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"End of the Report"

Materials Department
Arab Company for Laboratories and Soil
ACES Riyadh



TEST REPORT FOR TENSILE STRENGTH OF STEEL REBARS

Owner	Nour Steel Industry Company	ACES Report No.	RH.MMR24033370
Contractor	Nour Steel Industry Company	Date Reported	14-10-24
Consultant	N.P	Request No.	RH.MMO24008401
Project No.	Not Provided	Sample No.	RH.MMS24011228
Project Name	Internal Quality System	Client's Ref./IR No.	N.P
Sample Descr.	Steel Bars 16mm	Sampling Date	12-10-24
Steel Grade	Grade 60[420]	Sampling Method	Not Provided
Origin	KSA	Sampling Certificate	N/A
Source	Nour Steel Industry Company	Sampled By	CLIENT'S REP.
Sample Location	Steel Factory	Sample Size	1 Nos
Test Method(s)	ASTM A 370-17	Sample Brt. in by	CLIENT'S REP.
Specification Code	ASTM A 615/A615M -22	Date Received	12-10-24
Method Variation	Nil	Date Tested	14-10-24
		Tested By	ASIF KHAN
Remarks	The tensile test results indicated that the tested samples have satisfied the requirements of project for grade 420(60) steel in accordance to ASTM A 615/A615M-22.	Reviewed by	A.Shaaban (RY-103)
		Test Location	ACES Riyadh
		Lab. Location	ACES Riyadh
		Reported By	Eng. Hassan RY- 1334

N.P. indicates information not provided by the Client.

SpecNo	Heat/Cast No.	Nom. Size (mm)	Nominal Area (mm ²)	Mass / Unit Length (kg/m)	Yield Strength (0.5% Total Strain) (N/mm ²)	Tensile Strength (N/mm ²)	Elongation in 200mm (%)
1	-	16	201.10	1.485	555	654	13

According to SASO

Technical Regulation for Building Materials - Part 1:
Annex No. (1)

A) List of Metals and Metal Alloys Products for Constructions and Buildings and Relevant Standards
For Carbon Steel Bars- Standard Specification for Deformed and Plain Carbon Steel Bars For Concrete Reinforcement is :-
SASO ASTM A615M

ASTM A 615/A615M-20 Specification Requirements

	Grade 40 [280] ^a	Grade 60 [420]	Grade 80 [550]	Grade 100 [690]
Tensile strength, min. psi [MPa]	60 000 [420]	80 000 [550]	100 000 [690]	115 000 [790]
Yield strength, min. psi [MPa]	40 000 [280]	60 000 [420]	80 000 [550]	100 000 [690]
Ratio of actual tensile strength to actual yield strength, min	1.10	1.10	1.10	1.10
Elongation in 8 in. [200 mm], min. %				
Bar Designation No.				
3 [10]	11	9	7	7
4, 5 [13, 16]	12	9	7	7
6 [19]	12	9	7	7
7, 8 [22, 25]	...	8	7	7
9, 10, 11 [29, 32, 36]	...	7	6	6
14, 18, 20 [43, 57, 64]	...	7	6	6

^a Grade 40 [280] bars are furnished only in sizes 3 through 6 [10 through 19].

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A 615/ 615M-22 (Grade 420)
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Notes:

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- * Decision Rule : Simple Acceptance

"End of the Report"

Materials Department Manager
Arab Company for Laboratories and Soil
ACES Riyadh



TEST REPORT FOR BENDING OF STEEL BARS

ACES Client	Nour Steel Industry Company	Report No.	RH.MMR24033373
Project Owner	Nour Steel Industry Company	Date Reported	14-10-24
Project Contractor	Nour Steel Industry Company	Sample No.	RH.MMS24011229
Project Consultant	N.P	Order No.	RH.MMO24008401
Project No.	Not Provided	Client Reference	Receipt No. 38488 dated 14-Oct-2024 dated 14-Oct-2024
Project Name	Internal Quality System	RFI/WIR No.	N.P.
Sample Description	Steel Bars 18mm	Sampled By	N.P
Sample Source	Nour Steel Industry Company	Sampling Date	12-10-24
Sample Condition	N/A	Steel Grade	Grade 60[420]
Sample Location	Steel Factory	Sampling Cert.	N/A
Lot No.	N/A	Sampling Method	Not Provided
Lot Size.	N/A	Sample Size	1 No.
Sample Preparation	N.P	Sample Brt. In By	N.P
Test Method	ASTM A615/A615M -22	Date Received	12-10-24
Test Method Var.	N.P	Date Tested	14-10-24
Test Location	ACES MIAN LAB RIYADH	Tested By	SHARIF MURAD
Equipment Used	UTM	Equipment No.	N.P
Lab Location	ACES MIAN LAB RIYADH	Specification Code	SASO ASTM A615M- 22

Test Results:

Specimen No.	Heat/Cast No.	Nom. Size (mm)	Bend @180°	
			Former Dia.	Result
1	-	18	5d	Satisfactory

ASTM A615-22 Specification Requirements:
BEND
<i>Specimens shall show no sign of fracture when tested as specified.</i>

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A 615/ A615M-22 (Grade 420)
Remark:	Nil		

Notes:

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"End of the Report"

Materials Department
Arab Company for Laboratories and Soil
ACES Riyadh



**TEST REPORT FOR
TENSILE STRENGTH OF STEEL REBARS**

Owner	Nour Steel Industry Company	ACES Report No.	RH.MMR24033372
Contractor	Nour Steel Industry Company	Date Reported	14-10-24
Consultant	N.P	Request No.	RH.MMO24008401
Project No.	Not Provided	Sample No.	RH.MMS24011229
Project Name	Internal Quality System	Client's Ref./IR No.	N.P
Sample Descr.	Steel Bar Of Dia 18 mm	Sampling Date	12-10-24
Steel Grade	Grade 60[420]	Sampling Method	Not Provided
Origin	KSA	Sampling Certificate	N/A
Source	Nour Steel Industry Company	Sampled By	Client's Rep
Sample Location	Steel Factory	Sample Size	01 Nos
Test Method(s)	ASTM A370-22	Sample Brt. in by	Client's Rep.
Specification Code	ASTM A 615/A615M -22	Date Received	12-10-24
Method Variation	Nil	Date Tested	12-10-24
		Tested By	ASIF KHAN
Remarks	The tensile test results indicated that the tested samples have satisfied the requirements of project for grade 420(60) steel in accordance to ASTM A 615/A615M-22.	Reviewed by	A.Shaaban (RY-103)
		Test Location	ACES Riyadh
		Lab. Location	ACES Riyadh
		Reported By	Eng. Hassan RY- 1334

N.P. indicates information not provided by the Client.

SpecNo	Heat/Cast No.	Nom. Size (mm)	Nominal Area (mm ²)	Mass / Unit Length (kg/m)	Yield Strength (0.5% Total Strain) (N/mm ²)	Tensile Strength (N/mm ²)	Elongation in 200mm (%)
1	-	18	254.50	1.902	603	700	14

"According to SASO

*Technical Regulation for Building Materials - Part 1:
Annex No. (1)*

*A) List of Metals and Metal Alloys Products for Constructions and Buildings and Relevant Standards
For Carbon Steel Bars- Standard Specification for Deformed and Plain Carbon Steel Bars For Concrete Reinforcement is :-
SASO ASTM A615M*

ASTM A 615/A615M-22 Specification Requirements

	Grade 40 [280] ^a	Grade 60 [420]	Grade 80 [550]	Grade 100 [690]
Tensile strength, min, psi [MPa]	60 000 [420]	80 000 [550]	100 000 [690]	115 000 [790]
Yield strength, min, psi [MPa]	40 000 [280]	60 000 [420]	80 000 [550]	100 000 [690]
Ratio of actual tensile strength to actual yield strength, min	1.10	1.10	1.10	1.10
Elongation in 8 in. [200 mm], min, %				
Bar Designation No.				
3 [10]	11	9	7	7
4, 5 [13, 16]	12	9	7	7
6 [19]	12	9	7	7
7, 8 [22, 25]	...	8	7	7
9, 10, 11 [29, 32, 36]	...	7	6	6
14, 18, 20 [43, 57, 64]	...	7	6	6

^a Grade 40 [280] bars are furnished only in sizes 3 through 6 [10 through 19].

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A 615/ 615M-22 (Grade 420)
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Notes:

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- * Decision Rule : Simple Acceptance

"End of the Report"

Materials Department Manager
Arab Company for Laboratories and Soil
ACES Riyadh



TEST REPORT FOR STEEL CHEMICAL TEST

Owner	Nour Steel Industry Company	ACES Report No.	RH.MMR24033376
Contractor	Nour Steel Industry Company	Date Reported	14-10-24
Consultant	N.P	Sample No.	RH.MMS24011230
Project No.	Not Provided	Request No.	RH.MMO24008401
Project Name	Internal Quality System	Client Ref./IR No.	Request dated 12/10/2024
Sample Description	Steel Bars 20mm	Sampled By	Client's Rep.
Steel Grade	Grade 60[420]	Sampling Date	12-10-24
Supplier	Nour Steel Industry Company	Lot No.	N/A
Sample Location	Steel Factory	Sampling Method	Not Provided
Sample Brt. In By	Client's Rep.	Date Received	12-10-24
Test Method	ASTM E415-22	Date Tested	12-10-24
Remarks	Nil	Tested By	MOTASSIM
		Reviewed by	A.Shaaban (RY-103)
		Test Location	ACES Riyadh
		Lab. Location	ACES Riyadh
		Reported By	Eng. Hassan RY- 1334

Spec. No.	Element	% wt. of Material								
		C	Si	Mn	P	S	Ni	Cr.	Mo	Cu
1) Steel Bar Of Dia 20 mm	Results	0.214	0.216	0.533	0.013	0.042	0.074	0.083	0.018	0.121
	SASO- ASTM A615/A615M-22	-	-	-	0.06 max	-	-	-	-	-
	Element	Nb	Ti	V	Sn	N	Fe			
	Results	0.0131	0.0062	0.0145	0.0187	>0.0300	97.7			
	SASO- ASTM A615/A615M-22	-	-	-	-	-	-			

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A615/A615M-22 Gr- 60[420]
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Notes:

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- * Decision Rule : Simple Acceptance

"End of the Report"

Materials Department
Arab Company for Laboratories and Soil
ACES Riyadh



TEST REPORT FOR BENDING OF STEEL BARS

ACES Client	Nour Steel Industry Company	Report No.	RH.MMR24033375
Project Owner	Nour Steel Industry Company	Date Reported	14-10-24
Project Contractor	Nour Steel Industry Company	Sample No.	RH.MMS24011230
Project Consultant	N.P	Order No.	RH.MMO24008401
Project No.	Not Provided	Client Reference	Receipt No. 38488 dated 14-Oct-2024 dated 14-Oct-2024
Project Name	Internal Quality System	RFI/WIR No.	N.P.
Sample Description	Steel Bars 20mm	Sampled By	N.P
Sample Source	Nour Steel Industry Company	Sampling Date	12-10-24
Sample Condition	N/A	Steel Grade	Grade 60[420]
Sample Location	Steel Factory	Sampling Cert.	N/A
Lot No.	N/A	Sampling Method	Not Provided
Lot Size.	N/A	Sample Size	1 Nos
Sample Preparation	N.P	Sample Brt. In By	N.P
Test Method	ASTM A370-22	Date Received	12-10-24
Test Method Var.	N.P	Date Tested	12-10-24
Test Location	ACES RIYADH MAIN LAB	Tested By	SHARIF MURAD
Equipment Used	N.P	Equipment No.	N.P
Lab Location	ACES RIYADH MAIN LAB	Specification Code	SASO- ASTM A615/A615M-

Test Results:

Specimen No.	Heat/Cast No.	Nom. Size (mm)	Bend @180°	
			Former Dia.	Result
1	-	20	5d	Satisfactory

ASTM A615-22 Specification Requirements:
BEND
<i>Specimens shall show no sign of fracture when tested as specified.</i>

CONCLUSION	Pass	Standard of conclusion	SASO- ASTM A 615/ A615M-22 (Grade 420)
Remark:	Nil		

Notes:

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"End of the Report"

Materials Department
Arab Company for Laboratories and Soil
ACES Riyadh



**TEST REPORT FOR
TENSILE STRENGTH OF STEEL REBARS**

Owner	Nour Steel Industry Company	ACES Report No.	RH.MMR24033374
Contractor	Nour Steel Industry Company	Date Reported	14-10-24
Consultant	N.P	Request No.	RH.MMO24008401
Project No.	Not Provided	Sample No.	RH.MMS24011230
Project Name	Internal Quality System	Client's Ref./IR No.	N.P
Sample Descr.	Steel Bar Of Dia 20mm	Sampling Date	12-10-24
Steel Grade	Grade 60[420]	Sampling Method	Not Provided
Origin	KSA	Sampling Certificate	N/A
Source	Nour Steel Industry Company	Sampled By	Client's Rep.
Sample Location	Steel Factory	Sample Size	1 Nos
Test Method(s)	ASTM A370-22	Sample Brt. in by	Client's Rep.
Specification Code	ASTM A 615/A615M -22	Date Received	12-10-24
Method Variation	Nil	Date Tested	12-10-24
		Tested By	ASIF KHAN
Remarks	The tensile test results indicated that the tested samples have satisfied the requirements of project for grade 420(60) steel in accordance to ASTM A 615/A615M-22.	Reviewed by	A.Shaaban (RY-103)
		Test Location	ACES Riyadh
		Lab. Location	ACES Riyadh
		Reported By	Eng. Hassan RY- 1334

N.P. indicates information not provided by the Client.

SpecNo	Heat/Cast No.	Nom. Size (mm)	Nominal Area (mm ²)	Mass / Unit Length (kg/m)	Yield Strength (0.5% Total Strain) (N/mm ²)	Tensile Strength (N/mm ²)	Elongation in 200mm (%)
1	-	20	314.20	2.415	558	670	15

According to SASO

Technical Regulation for Building Materials - Part 1:
Annex No. (1)

A) List of Metals and Metal Alloys Products for Constructions and Buildings and Relevant Standards
For Carbon Steel Bars- Standard Specification for Deformed and Plain Carbon Steel Bars For Concrete Reinforcement is :-
SASO ASTM A615M

ASTM A 615/A615M-22 Specification Requirements

TABLE 2 Tensile Requirements

	Grade 40 [280] ^A	Grade 60 [420]	Grade 80 [550]	Grade 100 [690]
Tensile strength, min, psi [MPa]	60 000 [420]	80 000 [550]	100 000 [690]	115 000 [790]
Yield strength, min, psi [MPa]	40 000 [280]	60 000 [420]	80 000 [550]	100 000 [690]
Ratio of actual tensile strength to actual yield strength, min	1.10	1.10	1.10	1.10
Elongation in 8 in. [200 mm], min, %				
Bar Designation No.				
3 [10]	11	9	7	7
4, 5 [13, 16]	12	9	7	7
6 [19]	12	9	7	7
7, 8 [22, 25]	...	8	7	7
9, 10, 11 [29, 32, 36]	...	7	6	6
14, 18, 20 [43, 57, 64]	...	7	6	6

^A Grade 40 [280] bars are furnished only in sizes 3 through 6 [10 through 19].

CONCLUSION	Pass	Standard of conclusion	SASO -ASTM A 615/ 615M-22 (Grade 420)
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Notes:

*The test results represent the submitted sample only.

*Test results shall not be interpreted, reproduced or quoted in a whole or in part without prior written approval of ACES

*ACES is responsible for all information provided in the report which resulted from our activities but except for any information provided by the Customer or resulted from activities performed by another entity.

* Decision Rule : Simple Acceptance

"End of the Report"

Materials Department Manager
Arab Company for Laboratories and Soil
ACES Riyadh



A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By	:	Nour Steel Industry Company
Sample Condition	:	Good
Sample Description	:	14mmØ Deformed Steel Rebar
Heat Number	:	Not Provided
Material Specification	:	ASTM A615/A615M Gr.60 - 2024
Test Method	:	ASTM A370 - 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	3
Nominal Diameter	(mm) :	14.00*
Cross Sectional Area	(mm ²) :	153.938
Weight	(Kg) :	0.578
Length	(m) :	0.500
Mass per Meter	(Kg/m) :	1.156
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	74.226
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min.)	482.181
Tensile Load	(kN) :	-	90.684
Tensile Strength	(MPa) :	550.0 (min.)	589.095
Elongation After Fracture	(%) :	9.0 (min.)	13.00
Ratio of Actual Tensile Strength to Yield Strength	(%) :	1.10 (min.)	1.222
Comment	:	-	SATISFACTORY

*Above Testing Requirements Considered from SASO ASTM A615/A615M -2024

Tested By: ANAS AZIZ

Reviewed By:


JOBY JOSE

Supervisor – Met-Lab Dept

For AL HOTY-STANGER LTD. CO.



Approved By:


MOHAMMED YUSUF KHAN
Technical Manager – Met-Lab Dept.
For AL HOTY-STANGER LTD. CO.

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Nour Steel Industry Company
 Sample Condition : Good
 Sample Description : 14mmØ Deformed Steel Rebar
 Material Specification : ASTM A615/A615M.2024, GRADE 60
 Test Method : ASTM A370, 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Bend Specimen No.	:	3
Nominal Diameter	(mm) :	14.00*
Cross Sectional Area	(mm ²) :	153.938
Specimen Dimensions (Dia x Length)	(mm) :	14 X 500
Pin Diameter (3.5D)	(mm) :	49
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 3	Guided Bend	No Cracks were found after the Bend	SATISFACTORY

* Above Testing Requirements Considered from SASO ASTM A615/A615M -2024

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE

Supervisor -NDT/ Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN

Technical Manager - Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.

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Sample Name : 14mm Ø Deformed Steel Rebar-1-1-1-2
 Sample No. : RDMET24334-8
 Project :
 Sampled By : Client
 Sampled Date : 02-09-2024 09:57:00 AM
 Received Date : 02-09-2024 09:57:00 AM
 Analysis Start Date :
 Analysis End Date : 11-09-2024

Results

Test Name	Unit	Method	Results
Copper (Cu)	%	ASTM E 415	0.13
Molybdenum (Mo)	%	ASTM E 415	0.003
Chromium (Cr)	%	ASTM E 415	0.059
Nickel (Ni)	%	ASTM E 415	0.007
Silicon (Si)	%	ASTM E 415	0.26
Phosphorous (P)	%	ASTM E 415	0.025
Manganese (Mn)	%	ASTM E 415	0.72
Sulphur (S)	%	ASTM E 415	0.028
Carbon (C)	%	ASTM E 415	0.20

Comments:

The above chemical analysis result of the received 14mm Steel Rebar sample complies the chemical requirement of ASTM A615 Gr.60.
 (Phosphorus Content Not More Than 0.06 %).

MAZHER ALI KHAN AFRIDI
 Department Head
 Materials Analysis Department
 For AL HOTY - STANGER LTD. CO.

HURYAH ALAMER
 Technical Manager
 Materials Analysis Department

Test Method Variation: NONE

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TENSILE TEST REPORT

Report No: RDMET24334

Receipt Date: 02 SEP.2024

Test Date: 02 SEP.2024

Report Date: 05 SEP.2024

Page No.: 4 of 6

A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Nour Steel Industry Company
 Sample Condition : Good
 Sample Description : 16mmØ Deformed Steel Rebar
 Heat Number : Not Provided
 Material Specification : ASTM A615/A615M Gr.60 - 2024
 Test Method : ASTM A370 - 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	4
Nominal Diameter	(mm) :	16.00
Cross Sectional Area	(mm ²) :	201.062
Weight	(Kg) :	0.742
Length	(m) :	0.500
Mass per Meter	(Kg/m) :	1.484
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	107.25
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min.)	533.413
Tensile Load	(kN) :	-	129.102
Tensile Strength	(MPa) :	550.0 (min.)	642.101
Elongation After Fracture	(%) :	9.0 (min.)	11.00
Ratio of Actual Tensile Strength to Yield Strength	(%) :	1.10 (min.)	1.204
Comment	:	-	SATISFACTORY

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE
 Supervisor – Met-Lab Dept
 For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN
 Technical Manager – Met-Lab Dept.
 For AL HOTY-STANGER LTD. CO.

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Nour Steel Industry Company
 Sample Condition : Good
 Sample Description : 16mmØ Deformed Steel Rebar
 Material Specification : ASTM A615/A615M.2024, GRADE 60
 Test Method : ASTM A370, 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Bend Specimen No.	:	4
Nominal Diameter	(mm) :	16.00
Cross Sectional Area	(mm ²) :	201.062
Specimen Dimensions (Dia x Length)	(mm) :	16 X 500
Pin Diameter (3.5D)	(mm) :	56
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 4	Guided Bend	No Cracks were found after the Bend	SATISFACTORY

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE

Supervisor - NDT/ Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN
 Technical Manager - Met-Lab Dept.
 For AL HOTY-STANGER LTD. CO.

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ALKHARJ, Saudi Arabia

Analysis Results

Sample Name : 16mm Ø Deformed Steel Rebar-1-1-1-1-2
 Sample No. : RDMET24334-10
 Project :
 Sampled By : Client
 Sampled Date : 02-09-2024 09:57:00 AM
 Received Date : 02-09-2024 09:57:00 AM
 Analysis Start Date :
 Analysis End Date : 11-09-2024

Results

Test Name	Unit	Method	Results
Copper (Cu)	%	ASTM E 415	0.18
Molybdenum (Mo)	%	ASTM E 415	0.006
Chromium (Cr)	%	ASTM E 415	0.095
Nickel (Ni)	%	ASTM E 415	0.010
Silicon (Si)	%	ASTM E 415	0.26
Phosphorous (P)	%	ASTM E 415	0.029
Manganese (Mn)	%	ASTM E 415	0.78
Sulphur (S)	%	ASTM E 415	0.036
Carbon (C)	%	ASTM E 415	0.24

Comments:

The above chemical analysis result of the received 16mm Steel Rebar sample complies the chemical requirement of ASTM A615 Gr.60.

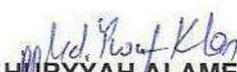
(Phosphorus Content Not More Than 0.06 %).


 MAZHER ALI KHAN AFRIDI

Department Head

Materials Analysis Department

For AL HOTY - STANGER LTD. CO.


 HURYAH ALAMER

Technical Manager

Materials Analysis Department

Test Method Variation: NONE

This report relates only to the sample tested and shall only be reproduced in full with the written approval of Al Hoty-Stanger testing laboratory





A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By	:	Nour Steel Industry Company
Sample Condition	:	Good
Sample Description	:	18mmØ Deformed Steel Rebar
Heat Number	:	Not Provided
Material Specification	:	ASTM A615/A615M Gr.60 - 2024
Test Method	:	ASTM A370 - 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	5
Nominal Diameter	(mm) :	18.00*
Cross Sectional Area	(mm ²) :	254.469
Weight	(Kg) :	1.015
Length	(m) :	0.500
Mass per Meter	(Kg/m) :	2.03
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	153.834
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min.)	604.53
Tensile Load	(kN) :	-	182.754
Tensile Strength	(MPa) :	550.0 (min.)	718.173
Elongation After Fracture	(%) :	9.0 (min.)	10.00
Ratio of Actual Tensile Strength to Yield Strength	(%) :	1.10 (min.)	1.188
Comment	:	-	SATISFACTORY

*Above Testing Requirements Considered from SASO ASTM A615/A615M -2024

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE

Supervisor – Met-Lab Dept

For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN

Technical Manager – Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By	:	Nour Steel Industry Company
Sample Condition	:	Good
Sample Description	:	18mmØ Deformed Steel Rebar
Material Specification	:	ASTM A615/A615M.2024, GRADE 60
Test Method	:	ASTM A370, 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Bend Specimen No.	:	5
Nominal Diameter	(mm) :	18.00*
Cross Sectional Area	(mm ²) :	254.469
Specimen Dimensions (Dia x Length)	(mm) :	18 X 500
Pin Diameter (5D)	(mm) :	90
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 5	Guided Bend	No Cracks were found after the Bend	SATISFACTORY

* Above Testing Requirements Considered from SASO ASTM A615/A615M -2024

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE

Supervisor -NDT/ Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN
 Technical Manager – Met-Lab Dept.
 For AL HOTY-STANGER LTD. CO.

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ALKHARJ, Saudi Arabia

Analysis Results

Sample Name : 18mm Ø Deformed Steel Rebar-1-1-1-1-2
 Sample No. : RDMET24334-12
 Project :
 Sampled By : Client
 Sampled Date : 02-09-2024 09:57:00 AM
 Received Date : 02-09-2024 09:57:00 AM
 Analysis Start Date :
 Analysis End Date : 11-09-2024

Results

Test Name	Unit	Method	Results
Copper (Cu)	%	ASTM E 415	0.18
Molybdenum (Mo)	%	ASTM E 415	0.007
Chromium (Cr)	%	ASTM E 415	0.15
Nickel (Ni)	%	ASTM E 415	0.009
Silicon (Si)	%	ASTM E 415	0.23
Phosphorous (P)	%	ASTM E 415	0.025
Manganese (Mn)	%	ASTM E 415	0.63
Sulphur (S)	%	ASTM E 415	0.029
Carbon (C)	%	ASTM E 415	0.27

Comments:

The above chemical analysis result of the received 18mm Steel Rebar sample complies the chemical requirement of ASTM A615 Gr.60.

(Phosphorus Content Not More Than 0.06 %).

MAZHER ALI KHAN AFRIDI

Department Head
 Materials Analysis Department
 For AL HOTY - STANGER LTD. CO.

HURYYAH ALAMER

Technical Manager
 Materials Analysis Department

Test Method Variation: NONE

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By	:	Nour Steel Industry Company
Sample Condition	:	Good
Sample Description	:	20mmØ Deformed Steel Rebar
Heat Number	:	Not Provided
Material Specification	:	ASTM A615/A615M Gr.60 - 2024
Test Method	:	ASTM A370 - 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31- Aug -24	31- Aug -25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Tensile Specimen No.	:	6
Nominal Diameter	(mm) :	20.00
Cross Sectional Area	(mm ²) :	314.159
Weight	(Kg) :	1.182
Length	(m) :	0.500
Mass per Meter	(Kg/m) :	2.364
Gauge Length	(mm) :	200.00

Test Properties	Units	As per standard / Specification Requirement	Obtained Values
Yield Load	(kN) :	-	153.888
Yield Strength (0.2% Offset)	(MPa) :	420.0 (min.)	489.841
Tensile Load	(kN) :	-	194.820
Tensile Strength	(MPa) :	550.0 (min.)	620.132
Elongation After Fracture	(%) :	9.0 (min.)	11.50
Ratio of Actual Tensile Strength to Yield Strength	(%) :	1.10 (min.)	1.266
Comment	:	-	SATISFACTORY

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE

Supervisor – Met-Lab Dept

For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN

Technical Manager – Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.

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A. SAMPLE DETAILS IDENTIFIED BY THE CUSTOMER:

Sampled By : Nour Steel Industry Company
 Sample Condition : Good
 Sample Description : 20mmØ Deformed Steel Rebar
 Material Specification : ASTM A615/A615M.2024, GRADE 60
 Test Method : ASTM A370, 2024

B. EQUIPMENT DETAILS: (Universal Testing Machine)

Make / Model	Equipment Serial No.	Calibration Date	Calibration Due Date
Universal TUE C-600	2010140	31-Aug-24	31-Aug-25

C. TEST RESULTS :

Test Parameters	Units	Dimensions
Bend Specimen No.	:	6
Nominal Diameter	(mm) :	20.00
Cross Sectional Area	(mm ²) :	314.159
Specimen Dimensions (Dia x Length)	(mm) :	20 X 500
Pin Diameter (5D)	(mm) :	100
Degree of Bending	:	180°

Bend Specimen No.	Method of Bend	Results	Remarks
Sample - 6	Guided Bend	No Cracks were found after the Bend	SATISFACTORY

Tested By: ANAS AZIZ

Reviewed By:

JOBY JOSE

Supervisor - NDT/ Met-Lab Dept.

For AL HOTY-STANGER LTD. CO.



Approved By:

MOHAMMED YUSUF KHAN
 Technical Manager - Met-Lab Dept.
 For AL HOTY-STANGER LTD. CO.

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ALKHARJ, Saudi Arabia

Analysis Results

Sample Name : 20mm Ø Deformed Steel Rebar-2
 Sample No. : RDMET24334-2
 Project :
 Sampled By : Client
 Sampled Date : 02-09-2024 09:57:00 AM
 Received Date : 02-09-2024 09:57:00 AM
 Analysis Start Date :
 Analysis End Date : 11-09-2024

Results

Test Name	Unit	Method	Results
Copper (Cu)	%	ASTM E 415	0.090
Molybdenum (Mo)	%	ASTM E 415	0.004
Chromium (Cr)	%	ASTM E 415	0.062
Nickel (Ni)	%	ASTM E 415	0.006
Silicon (Si)	%	ASTM E 415	0.22
Phosphorous (P)	%	ASTM E 415	0.018
Manganese (Mn)	%	ASTM E 415	0.67
Sulphur (S)	%	ASTM E 415	0.021
Carbon (C)	%	ASTM E 415	0.25

Comments:

The above chemical analysis result of the received 20mm Steel Rebar sample complies the chemical requirement of ASTM A615 Gr.60.

(Phosphorus Content Not More Than 0.06 %).


MAZHER ALI KHAN AFRIDI

Department Head
 Materials Analysis Department
 For AL HOTY - STANGER LTD. CO.


HURYYAH ALAMER

Technical Manager
 Materials Analysis Department

Test Method Variation: NONE

This report relates only to the sample tested and shall only be reproduced in full with the written approval of Al Hoty-Stanger testing laboratory



Test Report تقرير اختبار

الخصائص الفيزيائية - ادارة الهندسة

اسم المختبر - الإدارة:

الفرع الرئيسي الرياض

موقع:

شركة حديد نور للصناعة

Laboratory - Department name

اسم و بيانات المستفيد

Location

Customer Name / Details

عنوان المستفيد

77504

رقم العينة

GDL-ENG-46755

Customer Address

رقم الطلب

Sample No

Order No

14/01/2024

تاريخ استلام عينات الاختبار:

01/02/2024

تاريخ الاصدار:

01/02/2024

Date of Receipt of test item

تاريخ اكمال الاختبار

Issue Date

Date of Test completion date

لا يوجد

التعديلات:

4

عدد صفحات التقرير:

Amendment

No of Pages of Report

أسيخ الصلب الكربوني لتسليح الخرسانة

اسم و وصف *و حالة عينات الاختبار:

Name,Identity and *condition of test item

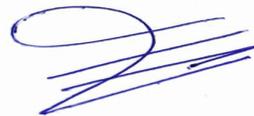
Seal

Published Date

Person in Charge of Report

Approval

01/02/2024



م/ سعيد بن أحمد الزهراني

حسين بن مبارك السلامة



14/01/2024	:	تاريخ دخول العينة للمختبر	:	شركة حديد نور للصناعة	:	العميل
اختبارات خاصة	:	الغرض من الاختبار	:	أسياخ الصلب الكربوني لتسليح الخرسانة	:	نوع المنتج
NUOR STEEL	:	الصانع	:	حديد تسليح	:	نوع العينة
حديد نور	:	اسم التجاري	:	3,000.00	:	التكلفة
SAUDI ARABIA	:	بلد المنشأ	:	2,000.00	:	الكمية
12 MM	:	القياس	:	1	:	عدد الحاويات
GR 60	:	نوع الحديد	:	عينة خاصة	:	طريقة سحب العينة
188.00	:	عدد الأطوار	:	101144503232003	:	رقم السداد
12 Mtr	:	الطول بالسيخ	:	بدون	:	رقم الخطاب الوارد
	:		:	H-7832	:	رقم الدفعة

الظروف البيئية* Environmental Conditions

الرطوبة (%) Humidity	الضغط Pressure	درجة الحرارة (°C) Temperature
-	-	24.90°C

م	اسماء الاختبارات	طرق الاختبار	الارتياب الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
1	بطاقة البيانات الإيضاحية	SASO_ASTM_A615+A1/21		PASS				
2	الفحص الظاهري	SASO_ASTM_A615+A1/21		PASS				
3	البيانات على السيخ	SASO_ASTM_A615+A1/21		PASS				
4 *	ارتفاع النتوء	SASO_ASTM_A615+A1/21	0.096	0.57	mm	Min=0.48	مطابق Accept	97%
5 *	المسافة بين النتوءات	SASO_ASTM_A615+A1/21	0.166 mm	7.17	mm	Max=8.4	مطابق Accept	100%
6 *	زاوية ميل النتوءات	SASO_ASTM_A615+A1/21	0.577	66.6	°	45/70	مطابق Accept	100%
7 *	وزن المتر الطولي	SASO_ASTM_A615+A1/21	0.0605 Kg/m	0.87	Kg/m	Min=0.834	مطابق Accept	88%

نتائج التقرير تخص هذه العينة فقط كما تم استلامها من العميل.

The results included in this report are relevant only for the sample as received from the customer.

لا يتم استنساخ هذا التقرير بشكل جزئي دون الحصول على الموافقة من المختبر.

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature are not valid.

تقارير الاختبار بدون التوقيع تكون غير معتمدة.

Testing reports without signature are not valid.

نتائج الاختبار و / او القياس، وقيم الارتياب مع مستوى الثقة وطرق الاختبار موضحة في الصفحات التالية التي تشكل جزءا من هذا التقرير.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

م	اسماء الاختبارات	طرق الاختبار	الارتياح الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
8 *	مجموع الفراغات بين أطراف النتوء الواحد	SASO_ASTM_A615+A1/21	0.092 mm	2.59	mm	Max=4.6	مطابق Accept	100%
9 *	نسبة الإستطالة	ASTM_E8_E8M_2021	0.29%	11.52	%	Min=9	مطابق Accept	100%
10 *	مقاومة الشد	ASTM_E8_E8M_2021	1.77 Mpa	670.16	MPa	Min=550	مطابق Accept	100%
11 *	إجهاد الخضوع	ASTM_E8_E8M_2021	2.48 Mpa	538.47	MPa	Min=420	مطابق Accept	100%
12 *	الثني	ASTM_E290/2014		PASS				
13 *	نسبة الفسفور	ASTM_E415/2017	0.0022%	0.0163	%	Max=0.075	مطابق Accept	100%
14	نسبة مقاومة الشد الى اجهاد الخضوع	ASTM_E8_E8M_2021		1.24	%			

*الآراء والتفسيرات: لا يوجد

Opinions & Interpretation

*مرفق

*قرار تقييم مطابقة المنتج:

Conformity Assessment

نتائج الاختبارات التي أجريت على العينة ضمن حدود المواصفة القياسية SASO ASTM A615/A615M/2021

حساب مدى التطابق في كل اختبار موضح بالجدول.

The conformity probability for each test is presented in the table.

*وصف قاعدة قرار تقييم المنتج:

*Definition of Decision Rule:

تم تطبيق قاعدة القرار و حساب مدى تطابق المنتج طبقا للمواصفة الدولية ايزو 98-4. تعتبر العينة مطابقة للمواصفة اذا تساوى او تجاوز مدى التطابق 50 %

The conformity assessment and the evaluation of conformity probability were performed in accordance with ISO/IEC Guide 98-4. The sample is considered in conformity with the specification if $P_c \geq 50\%$.

حدود المطابقة لكل اختبار موضحة بالجدول.

The tolerance limits for each test are given in the table.

يمكن حساب المخاطر في قبول العينة لكل اختبار باستخدام $[100-P_c]\%$

The risk assessment in accepting the test item for each test can be evaluated as $[100-P_c]\%$

يتم حساب مدى التطابق للاختبارات الكمية فقط. الاختبارات الكيفية يتم كتابة الملاحظات - ان وجدت - على عينة الاختبار في هذا الجزء من التقرير.

The conformity probability is evaluated only for quantitative tests. For qualitative test, the appropriate notes/recommendations (if any) are given in this part of the report.

*الاضافات او الانحرافات او الاستثناءات عن طريقة الاختبار:

*Additions to, deviations, or exclusions from the test method

لا يحق لصاحب العينة المطالبة بالعينات الاتلافية والعينات التي تجاوزت فترة حفظها اكثر من 90 يوم من تاريخ اصدار هذا التقرير.

The sample owner isn't entitled to claim destructive samples and samples whose holding period exceeded 90 days from date of issuance of this report.

تم اجراء جميع الاختبارات بمقر الهيئة السعودية ما عدا الاختبارات الموضحة بعلمة "+" تم اجراؤها عن طريق التعاقد من الباطن.

All tests were conducted at SASO, except tests marked with "+" were subcontracted.

تم حساب الارتفاع طبقا للمواصفة الدولية ايزو 98-3 مع استخدام معامل تغطية $(k=2)$

The evaluation of uncertainty was carried out in accordance with ISO Guide 98-3:2008 (GUM-1995) with coverage factor $k=2$

معامل القدرة الحسابية (C_p) لجميع مختبرات الهيئة السعودية للمواصفات لا يقل عن 1.33 تحقيقا لتوصيات المواصفة الدولية (ISO 7870-2)

The measurement capability indexes C_p for all SASO laboratories are not less than 1.33 following the recommendations of ISO 7870-2.

1. To view more about the decision rule used to Conformity of sample with requirements or specifications, Please enter to the link



1. للاطلاع اكثر عن قاعدة القرار المستخدمة في مدى مطابقة العينة للمتطلبات،
ارجو الدخول على الرابط التالي

Test Report تقرير اختبار

الخصائص الفيزيائية - ادارة الهندسة

اسم المختبر - الادارة:

الفرع الرئيسي الرياض

موقع:

شركة حديد نور للصناعة

Laboratory - Department name

اسم و بيانات المستفيد

Location

Customer Name / Details

عنوان المستفيد

77505

رقم العينة

GDL-ENG-46755

Customer Address

رقم الطلب

Sample No

Order No

14/01/2024

تاريخ استلام عينات الاختبار:

01/02/2024

تاريخ الاصدار:

01/02/2024

Date of Receipt of test item

تاريخ اكمال الاختبار

Issue Date

Date of Test completion date

لا يوجد

التعديلات:

4

عدد صفحات التقرير:

Amendment

No of Pages of Report

أسياخ الصلب الكربوني لتسليح الخرسانة

اسم و وصف *و حالة عينات الاختبار:

Name,Identity and *condition of test item

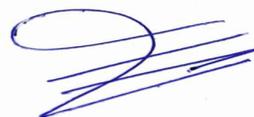
Seal

Published Date

Person in Charge of Report

Approval

01/02/2024



م/ سعيد بن أحمد الزهراني

حسين بن مبارك السلامة



14/01/2024	:	تاريخ دخول العينة للمختبر	:	شركة حديد نور للصناعة	:	العميل
اختبارات خاصة	:	الغرض من الاختبار	:	أسياخ الصلب الكربوني لتسليح الخرسانة	:	نوع المنتج
NUOR STEEL	:	الصانع	:	حديد تسليح	:	نوع العينة
حديد نور	:	اسم التجاري	:	3,000.00	:	التكلفة
SAUDI ARABIA	:	بلد المنشأ	:	2,000.00	:	الكمية
14 MM	:	القياس	:	1	:	عدد الحاويات
GR 60	:	نوع الحديد	:	عينة خاصة	:	طريقة سحب العينة
138.00	:	عدد الأطوار	:	101144503232172	:	رقم السداد
12 Mtr	:	الطول بالسيخ	:	بدون	:	رقم الخطاب الوارد
	:		:	H-7811	:	رقم الدفعة

الظروف البيئية* Environmental Conditions

الرطوبة (%) Humidity	الضغط Pressure	درجة الحرارة (°C) Temperature
-	-	24.90°C

م	اسماء الاختبارات	طرق الاختبار	الارتياب الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
1	بطاقة البيانات الإيضاحية	SASO_ASTM_A615+A1/21		PASS				
2	الفحص الظاهري	SASO_ASTM_A615+A1/21		PASS				
3	البيانات على السيخ	SASO_ASTM_A615+A1/21		PASS				
4 *	ارتفاع النتوء	SASO_ASTM_A615+A1/21	0.096 mm	0.72	mm	Min=0.56	مطابق Accept	100%
5 *	المسافة بين النتوءات	SASO_ASTM_A615+A1/21	0.166 mm	8.30	mm	Max=9.8	مطابق Accept	100%
6 *	زاوية ميل النتوءات	SASO_ASTM_A615+A1/21	0.577	57	°	45/70	مطابق Accept	100%
7 *	وزن المتر الطولي	SASO_ASTM_A615+A1/21	0.0605 Kg/m	1.1356	Kg/m	Min=1.135	مطابق Accept	51%

نتائج التقرير تخص هذه العينة فقط كما تم استلامها من العميل.

The results included in this report are relevant only for the sample as received from the customer.

لا يتم استنساخ هذا التقرير بشكل جزئي دون الحصول على الموافقة من المختبر.

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature are not valid.

تقارير الاختبار بدون التواقيع تكون غير معتمدة.

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نتائج الاختبار و / او القياس، وقيم الارتياب مع مستوى الثقة وطرق الاختبار موضحة في الصفحات التالية التي تشكل جزءا من هذا التقرير.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

م	اسماء الاختبارات	طرق الاختبار	الارتياب الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
8 *	مجموع الفراغات بين أطراف النتوء الواحد	SASO_ASTM_A615+A1/21	0.092 mm	2.49	mm	Max=5.3	مطابق Accept	100%
9 *	نسبة الإستطالة	ASTM_E8_E8M_2021	0.29%	14.54	%	Min=-9	مطابق Accept	100%
10 *	مقاومة الشد	ASTM_E8_E8M_2021	1.77 Mpa	609.11	MPa	Min=550	مطابق Accept	100%
11 *	إجهاد الخضوع	ASTM_E8_E8M_2021	2.48 Mpa	498.33	MPa	Min=420	مطابق Accept	100%
12 *	الثني	ASTM_E290/2014		PASS				
13 *	نسبة الفسفور	ASTM_E415/2017	0.0022%	0.0173	%	Max=0.075	مطابق Accept	100%
14	نسبة مقاومة الشد الى اجهاد الخضوع	ASTM_E8_E8M_2021		1.22	%			

*الآراء والتفسيرات: لا يوجد

Opinions & Interpretation

*مرفق

*قرار تقييم مطابقة المنتج:

Conformity Assessment

نتائج الاختبارات التي أجريت على العينة ضمن حدود المواصفة القياسية SASO ASTM A615/A615M/2021

حساب مدى التطابق في كل اختبار موضح بالجدول.

The conformity probability for each test is presented in the table.

*وصف قاعدة قرار تقييم المنتج:

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تم تطبيق قاعدة القرار و حساب مدى تطابق المنتج طبقا للمواصفة الدولية ايزو 98-4. تعتبر العينة مطابقة للمواصفة اذا تساوى او تجاوز مدى التطابق 50 %

The conformity assessment and the evaluation of conformity probability were performed in accordance with ISO/IEC Guide 98-4. The sample is considered in conformity with the specification if $P_c \geq 50\%$.

حدود المطابقة لكل اختبار موضحة بالجدول.

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يمكن حساب المخاطر في قبول العينة لكل اختبار باستخدام $[100-P_c]\%$

The risk assessment in accepting the test item for each test can be evaluated as $[100-P_c]\%$

يتم حساب مدى التطابق للاختبارات الكمية فقط. الاختبارات الكيفية يتم كتابة الملاحظات - ان وجدت - على عينة الاختبار في هذا الجزء من التقرير.

The conformity probability is evaluated only for quantitative tests. For qualitative test, the appropriate notes/recommendations (if any) are given in this part of the report.

*الاضافات او الانحرافات او الاستثناءات عن طريقة الاختبار:

*Additions to, deviations, or exclusions from the test method

لا يحق لصاحب العينة المطالبة بالعينات الاتلافية والعينات التي تجاوزت فترة حفظها اكثر من 90 يوم من تاريخ اصدار هذا التقرير.

The sample owner isn't entitled to claim destructive samples and samples whose holding period exceeded 90 days from date of issuance of this report.

تم اجراء جميع الاختبارات بمقر الهيئة السعودية ما عدا الاختبارات الموضحة بعلمة "+" تم اجراؤها عن طريق التعاقد من الباطن.

All tests were conducted at SASO, except tests marked with "+" were subcontracted.

تم حساب الارتفاع طبقا للمواصفة الدولية ايزو 98-3 مع استخدام معامل تغطية $(k=2)$

The evaluation of uncertainty was carried out in accordance with ISO Guide 98-3:2008 (GUM-1995) with coverage factor $k=2$

معامل القدرة الحسابية (C_p) لجميع مختبرات الهيئة السعودية للمواصفات لا يقل عن 1.33 تحقيقا لتوصيات المواصفة الدولية (ISO 7870-2)

The measurement capability indexes C_p for all SASO laboratories are not less than 1.33 following the recommendations of ISO 7870-2.

1. To view more about the decision rule used to Conformity of sample with requirements or specifications, Please enter to the link



1. للاطلاع اكثر عن قاعدة القرار المستخدمة في مدى مطابقة العينة للمتطلبات، ارجو الدخول على الرابط التالي



GDL-ENG-45082
73748 v1

06-25

Test Report تقرير اختبار

الخصائص الفيزيائية - ادارة الهندسة

اسم المختبر - الادارة:

Laboratory - Department name

شركة حديد نور للصناعة

اسم و بيانات المستفيد

Customer Name / Details

عنوان المستفيد

Customer Address

رقم الطلب

73748

رقم العينة

GDL-ENG-45082

Sample No

Order No

03/09/2023

تاريخ استلام عينات الاختبار:

Date of Receipt of test item

13/09/2023

تاريخ الاصدار:

12/09/2023

تاريخ اكتمال الاختبار

Issue Date

Date of Test completion date

لا يوجد

التعديلات:

5

عدد صفحات التقرير:

Amendment

No of Pages of Report

أسياخ الصلب الكربوني لتسليح الخرسانة

اسم و وصف *و حالة عينات الاختبار:

Name,Identity and *condition of test item

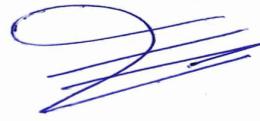


Seal

Published Date

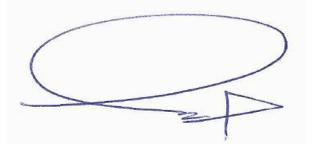
13/09/2023

Person in Charge of Report



م/ سعيد بن أحمد الزهراني

Approval



حسين بن مبارك السلامة

The results included in this report are relevant only for the sample as received from the customer.

نتائج التقرير تخص هذه العينة فقط كما تم استلامها من العميل.

لا يتم استنساخ هذا التقرير بشكل جزئي دون الحصول على الموافقة من المختبر.

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نتائج الاختبار و / او القياس، وقيم الارتياب مع مستوى الثقة وطرق الاختبار موضحة في الصفحات التالية التي تشكل جزءا من هذا التقرير.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

03/09/2023	:	تاريخ دخول العينة للمختبر	:	شركة حديد نور للصناعة	:	العميل
اختبارات خاصة	:	الغرض من الاختبار	:	أسياخ الصلب الكربوني لتسليح الخرسانة	:	نوع المنتج
شركة حديد نور للصناعة	:	الصانع	:	حديد تسليح	:	نوع العينة
نور	:	اسم التجاري	:	3,000.00	:	التكلفة
SAUDI ARABIA	:	بلد المنشأ	:	2,000.00	:	الكمية
16 MM	:	القياس	:	1	:	عدد الحاويات
GR 60	:	نوع الحديد	:	عينة خاصة	:	طريقة سحب العينة
106.00	:	عدد الأطوار	:	101144501012046	:	رقم السداد
12 M	:	مطوّل/السيخ	:	بدون	:	رقم الخطاب الوارد
	:		:	U-3022	:	رقم الدفعة

الظروف البيئية* Environmental Conditions

الرطوبة Humidity (%)	الضغط Pressure	درجة الحرارة Temperature (°C)
31.3%	-	23.0°C

م	اسماء الاختبارات	طرق الاختبار	الارتياح الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
1	بطاقة البيانات الإيضاحية	SASO_ASTM_A615+A1/21		PASS				
2	الفحص الظاهري	SASO_ASTM_A615+A1/21		PASS				
3	البيانات على السيخ	SASO_ASTM_A615+A1/21		PASS				
4 *	ارتفاع النتوء	SASO_ASTM_A615+A1/21	0.096 mm	1.41	mm	Min=0.72	مطابق Accept	100%
5 *	المسافة بين النتوءات	SASO_ASTM_A615+A1/21	0.166 mm	10.11	mm	Max=11.2	مطابق Accept	100%
6 *	زاوية ميل النتوءات	SASO_ASTM_A615+A1/21	0.577	56	°	45/70	مطابق Accept	100%
7 *	وزن المتر الطولي	SASO_ASTM_A615+A1/21	0.0605 Kg/m	1.573	Kg/m	Min=1.483	مطابق Accept	100%

م	اسماء الاختبارات	طرق الاختبار	الارتياب الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
8 *	مجموع الفراغات بين أطراف النتوء الواحد	SASO_ASTM_A615+A1/21	0.092 mm	2.34	mm	Max=6.1	مطابق Accept	100%
9 *	نسبة الإستطالة	ASTM_E8_E8M_2021	0.29%	10	%	Min=9	مطابق Accept	100%
10 *	مقاومة الشد	ASTM_E8_E8M_2021	1.77 Mpa	735.53	MPa	Min=550	مطابق Accept	100%
11 *	إجهاد الخضوع	ASTM_E8_E8M_2021	2.48 Mpa	627.18	MPa	Min=420	مطابق Accept	100%
12	نسبة مقاومة الشد الى اجهاد الخضوع	ASTM_E8_E8M_2021		1.17	%			
13 *	الثني	ASTM_E290/2022		PASS				
14 *	نسبة الكربون	ASTM_E415/2021		0.199	%			
15 *	نسبة الكبريت	ASTM_E415/2021		0.0349	%			
16 *	نسبة الفسفور	ASTM_E415/2021	0.004%	0.0351	%	Max=0.075	مطابق Accept	100%
17 *	نسبة المنجنيز	ASTM_E415/2021		0.763	%			

*الآراء والتفسيرات: لا يوجد

Opinions & Interpretation

*مرفق

*قرار تقييم مطابقة المنتج:

Conformity Assessment

نتائج الاختبارات التي أجريت على العينة ضمن حدود المواصفة القياسية SASO ASTM A615M+A1/2021

حساب مدى التطابق في كل اختبار موضح بالجدول.

The conformity probability for each test is presented in the table.

*وصف قاعدة قرار تقييم المنتج:

*Definition of Decision Rule:

تم تطبيق قاعدة القرار و حساب مدى تطابق المنتج طبقا للمواصفة الدولية ايزو 98-4. تعتبر العينة مطابقة للمواصفة اذا تساوى او تجاوز مدى التطابق 50 %

The conformity assessment and the evaluation of conformity probability were performed in accordance with ISO/IEC Guide 98-4. The sample is considered in conformity with the specification if $P_c \geq 50\%$.

حدود المطابقة لكل اختبار موضح بالجدول.

The tolerance limits for each test are given in the table.

يمكن حساب المخاطر في قبول العينة لكل اختبار باستخدام $[100-P_c]\%$

The risk assessment in accepting the test item for each test can be evaluated as $[100-P_c]\%$

يتم حساب مدى التطابق للاختبارات الكمية فقط. الاختبارات الكيفية يتم كتابة الملاحظات - ان وجدت - على عينة الاختبار في هذا الجزء من التقرير.

The conformity probability is evaluated only for quantitative tests. For qualitative test, the appropriate notes/recommendations (if any) are given in this part of the report.

*الاضافات او الانحرافات او الاستثناءات عن طريقة الاختبار:

*Additions to, deviations, or exclusions from the test method

لا يحق لصاحب العينة المطالبة بالعينات الاتلافية والعينات التي تجاوزت فترة حفظها اكثر من 90 يوم من تاريخ اصدار هذا التقرير.

The sample owner isn't entitled to claim destructive samples and samples whose holding period exceeded 90 days from date of issuance of this report.

تم اجراء جميع الاختبارات بمقر الهيئة السعودية ما عدا الاختبارات الموضحة بعلمة "+" تم اجراؤها عن طريق التعاقد من الباطن.

All tests were conducted at SASO, except tests marked with "+" were subcontracted.

تم حساب الارتفاع طبقا للمواصفة الدولية ايزو 98-3 مع استخدام معامل تغطية $(k=2)$

The evaluation of uncertainty was carried out in accordance with ISO Guide 98-3:2008 (GUM-1995) with coverage factor $k=2$

معامل القدرة الحسابية (C_p) لجميع مختبرات الهيئة السعودية للمواصفات لا يقل عن 1.33 تحقيقا لتوصيات المواصفة الدولية (ISO 7870-2)

The measurement capability indexes C_p for all SASO laboratories are not less than 1.33 following the recommendations of ISO 7870-2.

1. To view more about the decision rule used to Conformity of sample with requirements or specifications, Please enter to the link



1. للاطلاع اكثر عن قاعدة القرار المستخدمة في مدى مطابقة العينة للمتطلبات،
ارجو الدخول على الرابط التالي



GDL-ENG-45082

73727 v1

06-25

Test Report تقرير اختبار

الخصائص الفيزيائية - ادارة الهندسة

اسم المختبر - الادارة:

Laboratory - Department name

شركة حديد نور للصناعة

اسم و بيانات المستفيد

Customer Name / Details

عنوان المستفيد

Customer Address

رقم الطلب

73727

رقم العينة

GDL-ENG-45082

Sample No

Order No

03/09/2023

تاريخ استلام عينات الاختبار:

Date of Receipt of test item

13/09/2023

تاريخ الاصدار:

12/09/2023

تاريخ اكتمال الاختبار

Issue Date

Date of Test completion date

لا يوجد

التعديلات:

5

عدد صفحات التقرير:

Amendment

No of Pages of Report

أسياخ الصلب الكربوني لتسليح الخرسانة

اسم و وصف * و حالة عينات الاختبار:

Name,Identity and *condition of test item

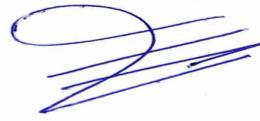


Seal

Published Date

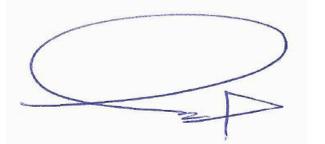
13/09/2023

Person in Charge of Report



م/ سعيد بن أحمد الزهراني

Approval



حسين بن مبارك السلامة

The results included in this report are relevant only for the sample as received from the customer.

نتائج التقرير تخص هذه العينة فقط كما تم استلامها من العميل.

لا يتم استنساخ هذا التقرير بشكل جزئي دون الحصول على الموافقة من المختبر.

This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature are not valid.

تقارير الاختبار بدون التوقيع تكون غير معتمدة.

Testing reports without signature are not valid.

نتائج الاختبار و / او القياس، وقيم الارتياب مع مستوى الثقة وطرق الاختبار موضحة في الصفحات التالية التي تشكل جزءا من هذا التقرير.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

03/09/2023	:	تاريخ دخول العينة للمختبر	:	شركة حديد نور للصناعة	:	العميل
اختبارات خاصة	:	الغرض من الاختبار	:	أسياخ الصلب الكربوني لتسليح الخرسانة	:	نوع المنتج
شركة حديد نور للصناعة	:	الصانع	:	حديد تسليح	:	نوع العينة
نور	:	اسم التجاري	:	3,000.00	:	التكلفة
SAUDI ARABIA	:	بلد المنشأ	:	2,000.00	:	الكمية
18 MM	:	القياس	:	1	:	عدد الحاويات
GR 60	:	نوع الحديد	:	عينة خاصة	:	طريقة سحب العينة
83.00	:	عدد الأطوار	:	101144501044103	:	رقم السداد
12 M	:	مطوية بالسيخ	:	بدون	:	رقم الخطاب الوارد
	:		:	U-3020	:	رقم الدفعة

الظروف البيئية* Environmental Conditions

الرطوبة Humidity (%)	الضغط Pressure	درجة الحرارة Temperature (°C)
31.3%	-	23°C

م	اسماء الاختبارات	طرق الاختبار	الارتياح الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
1	بطاقة البيانات الإيضاحية	SASO_ASTM_A615+A1/21		PASS				
2	الفحص الظاهري	SASO_ASTM_A615+A1/21		PASS				
3	البيانات على السيخ	SASO_ASTM_A615+A1/21		PASS				
4 *	ارتفاع النتوء	SASO_ASTM_A615+A1/21	0.096 mm	1.345	mm	Min=0.81	مطابق Accept	100%
5 *	المسافة بين النتوءات	SASO_ASTM_A615+A1/21	0.166 mm	11.07	mm	Max=12.6	مطابق Accept	100%
6 *	زاوية ميل النتوءات	SASO_ASTM_A615+A1/21	0.577	54	°	45/70	مطابق Accept	100%
7 *	وزن المتر الطولي	SASO_ASTM_A615+A1/21	0.0605 Kg/m	1.97	Kg/m	Min=1.878	مطابق Accept	100%

م	اسماء الاختبارات	طرق الاختبار	الارتياب الموسع	النتيجة	وحدة القياس	حدود المطابقة	قرار المطابقة	مدى التطابق
	Test Name	Test Method	Expanded Uncertainty U	Result	SI Unit	Conformity Limit (Ti, Tu)	Conformity Assessment	Conformity Probability, Pc
8 *	مجموع الفراغات بين أطراف النتوء الواحد	SASO_ASTM_A615+A1/21	0.092 mm	2.89	mm	Max=6.6	مطابق Accept	100%
9 *	نسبة الإستطالة	ASTM_E8_E8M_2021	0.29%	9.45	%	Min=9	مطابق Accept	100%
10 *	مقاومة الشد	ASTM_E8_E8M_2021	1.77 Mpa	787.07	MPa	Min=550	مطابق Accept	100%
11 *	إجهاد الخضوع	ASTM_E8_E8M_2021	2.48 Mpa	677.11	MPa	Min=420	مطابق Accept	100%
12	نسبة مقاومة الشد الى اجهاد الخضوع	ASTM_E8_E8M_2021		1.16	%			
13 *	الثني	ASTM_E290/2022		PASS				
14 *	نسبة الكربون	ASTM_E415/2021		0.187	%			
15 *	نسبة الكبريت	ASTM_E415/2021		0.0337	%			
16 *	نسبة الفسفور	ASTM_E415/2021	0.004%	0.0336	%	Max=0.075	مطابق Accept	100%
17 *	نسبة المنجنيز	ASTM_E415/2021		0.691	%			

*الآراء والتفسيرات: لا يوجد

Opinions & Interpretation

*مرفق

*قرار تقييم مطابقة المنتج:

Conformity Assessment

نتائج الاختبارات التي أجريت على العينة ضمن حدود المواصفة القياسية SASO ASTM A615M+A1/2021

حساب مدى التطابق في كل اختبار موضح بالجدول.

The conformity probability for each test is presented in the table.

*وصف قاعدة قرار تقييم المنتج:

*Definition of Decision Rule:

تم تطبيق قاعدة القرار و حساب مدى تطابق المنتج طبقا للمواصفة الدولية ايزو 98-4. تعتبر العينة مطابقة للمواصفة اذا تساوى او تجاوز مدى التطابق 50 %

The conformity assessment and the evaluation of conformity probability were performed in accordance with ISO/IEC Guide 98-4. The sample is considered in conformity with the specification if $P_c \geq 50\%$.

حدود المطابقة لكل اختبار موضحة بالجدول.

The tolerance limits for each test are given in the table.

يمكن حساب المخاطر في قبول العينة لكل اختبار باستخدام $[100-P_c]\%$

The risk assessment in accepting the test item for each test can be evaluated as $[100-P_c]\%$

يتم حساب مدى التطابق للاختبارات الكمية فقط. الاختبارات الكيفية يتم كتابة الملاحظات - ان وجدت - على عينة الاختبار في هذا الجزء من التقرير.

The conformity probability is evaluated only for quantitative tests. For qualitative test, the appropriate notes/recommendations (if any) are given in this part of the report.

*الاضافات او الانحرافات او الاستثناءات عن طريقة الاختبار:

*Additions to, deviations, or exclusions from the test method

لا يحق لصاحب العينة المطالبة بالعينات الاتلافية والعينات التي تجاوزت فترة حفظها اكثر من 90 يوم من تاريخ اصدار هذا التقرير.

The sample owner isn't entitled to claim destructive samples and samples whose holding period exceeded 90 days from date of issuance of this report.

تم اجراء جميع الاختبارات بمقر الهيئة السعودية ما عدا الاختبارات الموضحة بعلمة "+" تم اجراؤها عن طريق التعاقد من الباطن.

All tests were conducted at SASO, except tests marked with "+" were subcontracted.

تم حساب الارتفاع طبقا للمواصفة الدولية ايزو 98-3 مع استخدام معامل تغطية $(k=2)$

The evaluation of uncertainty was carried out in accordance with ISO Guide 98-3:2008 (GUM-1995) with coverage factor $k=2$

معامل القدرة الحسابية (C_p) لجميع مختبرات الهيئة السعودية للمواصفات لا يقل عن 1.33 تحقيقا لتوصيات المواصفة الدولية (ISO 7870-2)

The measurement capability indexes C_p for all SASO laboratories are not less than 1.33 following the recommendations of ISO 7870-2.

1. To view more about the decision rule used to Conformity of sample with requirements or specifications, Please enter to the link



1. للاطلاع اكثر عن قاعدة القرار المستخدمة في مدى مطابقة العينة للمتطلبات، ارجو الدخول على الرابط التالي



شركة حديد نور للصناعة



السجل التجاري: 1011144512

رمزك التجاري QR Code

من خلاله يمكنك التحقق المباشر من المعلومات:

- السجل التجاري
- رخصة البلدية
- شهادة السعودة
- برنامج نطاقات
- شهادة الزكاة
- الغرفة التجارية



٧٠٠٩٢١١٧٠٢

: الرقم الموحد

١٠١١٤٤٥١٢

: رقم المنشأة

١٤٤٢/٠٤/٠٨ هـ

: التاريخ

شهادة تسجيل الشركة Company Registration Certificate

وزارة التجارة
Ministry of Commerce



الاسم التجاري للشركة : شركة حديد نور للصناعة

نوعها : ذات مسؤولية محدودة

جنسيتها : سعودي

مدة الشركة : ٩٩ سنة

تبدأ من : ١٤٣٤/٠٨/٠٦ هـ

وتنتهي في : ١٥٣٣/٠٨/٠٧ هـ

مركزها الرئيسي : ٧٠٦٦، شارع تسعة و خمسون، المدينة الصناعية بالخرج، ٤٣٩٩

هاتف :
الرمز البريدي : ١٦٤١٦

ص. ب :

النشاط : للاطلاع على بيانات الأنشطة الرجاء مسح الرمز التجاري

رأس المال : ٥٠٠,٠٠٠ ريال سعودي

باسل محمد حسن المهائني

المديرون : 1 سامي عمر حسن محمد جبر

2

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11

12

13

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16

سلطات المدير/المديرون : حسب ما نص عليه عقد الشركة

الخرج

بأنه تم تسجيل الشركة المذكورة أعلاه بمدينة : الخرج

الخرج

يشهد مكتب السجل التجاري بمدينة : الخرج

وتاريخ : ١٤٤٥/٠٢/٠١ هـ

بموجب الإيصال رقم : ٢٣٠٨٤٦٨٥٥٩٣

وتنتهي صلاحية الشهادات في : ١٤٤٧/٠٤/٠٨ هـ



To Verify The Information Of This Certificate Visit <http://qr.mc.gov.sa> يمكنك التحقق من صحة هذه الشهادة بالدخول على

+966 11 294 4444 | الرياض 11162 | Kingdom of Saudi Arabia | المملكة العربية السعودية | www.mc.gov.sa | MCgovSA @ f t y



السادة/ شركة حديد نور للصناعة

نهنتكم بدخول عالم الأعمال التجارية وإصدار سجلكم التجاري، ونتطلع أن يساهم هذا السجل في تحقيق تطلعاتكم، وأن يكتب الله لكم التوفيق والنجاح في عملكم التجاري وأن تكون شريكاً في تعزيز اقتصاد المملكة العربية السعودية.

يسرنا إبلاغكم بأن رقم منشآتكم الموحد هو ٧٠٠٩٢١١٧٠٢ وقد تم ربطه بالخدمات الحكومية التي ستحتاجها مستقبلاً. وهي على النحو التالي:

الرقم:		
١٠١١١٤٤٥١٢	رقم سجلكم التجاري للمنشأة	 <input checked="" type="checkbox"/> وزارة التجارة Ministry of Commerce
١٩٥٢٧٧١	رقم منشآتكم لدى وزارة الموارد البشرية والتنمية الاجتماعية	 <input checked="" type="checkbox"/> وزارة الموارد البشرية والتنمية الاجتماعية Ministry of Human Resources and Social Development
٢١٠١٦٢٥٤٠٣٦	تم تسجيل منشآتكم مجاناً لمدة سنة في خدمة واصل التجاري	 <input checked="" type="checkbox"/>
٣١٠٧٩٩٥٥٧٧	رقم منشآتكم لدى هيئة الزكاة والضريبة والجمارك	 <input checked="" type="checkbox"/> هيئة الزكاة والضريبة والجمارك Zakat, Tax and Customs Authority
تحت الإجراء	رقم منشآتكم لدى المؤسسة العامة للتأمينات الاجتماعية	 <input checked="" type="checkbox"/> المؤسسة العامة للتأمينات الاجتماعية General Organization for Social Insurance
١٠٤٠١١٢٥١٤٨١	رقم منشآتكم لدى الغرفة التجارية.	 <input checked="" type="checkbox"/> اتحاد الغرف السعودية Federation of Saudi Chambers
لا يوجد	رقم رخصة "بلدية" فورية (في حال اختياركم)	 <input checked="" type="checkbox"/> بلدي balady



يُتيح تطبيق "نوافذ منشآت" العديد من الخدمات الممكنة لك في عالم الأعمال و منها الحصول على الإرشاد و الاستشارات ، تطبيق "نوافذ منشآت" بوابة دخولك إلى عالم الأعمال، <https://www.monshaat.gov.sa/nawafth>

منشآت
monsha'at
إدارة عامة للمنشآت الصغيرة والمتوسطة
Small Medium Enterprises General Authority



ويمكنك فتح حساب بنكي دون الحاجة إلى أي أختام لمنشأتك

كما جمعنا لك كافة الانظمة واللوائح بلغة بسيطة في دليل التاجر لتمارس عملك التجاري بسهولة mc.gov.sa/trader/guide



TIN 3107995577 الرقم المميز
Certificate No. 100241098155349 رقم الشهادة
Certificate date 24/12/2020 تاريخ الشهادة



هيئة الزكاة والضريبة والجمارك
Zakat, Tax and Customs Authority

المملكة العربية السعودية
Kingdom of Saudi Arabia

شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد هيئة الزكاة والضريبة والجمارك بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ ٢٤/١٢/٢٠٢٠ م
The Zakat, Tax and Customs Authority certifies that taxpayer below is VAT registered on 24/12/2020 AD

Taxpayer Name	شركة حديد نور للصناعة	اسم المكلف
VAT Registration Number	310799557700003	رقم التسجيل الضريبي
Effective Registration Date	2021/01/01	تاريخ نفاذ التسجيل
Taxpayer Address	الخرج، الصناعية، 59.16416	عنوان المكلف
CR / License Contact / ID No	1011144512	رقم السجل التجاري / الرخصة / العقد / الهوية
Tax Period	شهرى - Monthly	الفترة الضريبية
First Filing due date	2021/02/28	تاريخ استحقاق أول إقرار ضريبي

ملاحظة: كمكلفين مسجلين في ضريبة القيمة المضافة، لا يجوز لكم تحصيل ضريبة القيمة المضافة من عملائكم قبل تاريخ نفاذ التسجيل في الضريبة. وفي حال تبين غير ذلك ستقوم هيئة الزكاة والضريبة والجمارك بتنفيذ الغرامات المستحقة

Note: As a VAT registered taxpayer, you are not allowed to collect VAT from your customers prior to the effective date of the tax registration. If otherwise approved, The ZAKAT, Tax and Customs Authority will impose the applicable penalties



Proof Number	1054213632	رقم الإثبات
Original Date	21/8/2024	تاريخ الإصدار
Expiration Date	17/2/2025	تاريخ الانتهاء



إثبات عنوان Address Proof

Address Holder Details

بيانات صاحب العنوان

Name		شركة حديد نورللصناعة	الاسم
Customer Acc.	3 1 3 2 0 3 4 0 1 6 7		رقم الحساب
Reg. Date		3/1/2021	تاريخ التسجيل

Address Details

تفاصيل العنوان

Short Address	O A A A 7 6 0 3	العنوان المختصر
Building No.	7 6 0 3	رقم المبنى
Street	Hijrah Al Wahah 1460	الشارع
		هجرة الواحة 1460
Secondary No.	4 3 9 9	الرقم الفرعي
District	Al Kharj Industrial City	الحي
		المدينة الصناعية بالخرج
Postal Code	1 6 4 1 6	الرمزي البريدي
City	AL KHARJ	المدينة
		الخرج
	Kingdom of Saudi Arabia	المملكة العربية السعودية



للتحقق To Verify

<https://proof.address.gov.sa/VerifyProofNA.aspx>

تم إصدار هذا الإثبات إلكترونياً ولا يتطلب التوقيع عليه

تم إصدار هذا الإثبات بناءً على طلب الموضح أعلاه، ويحظر قطعياً تقليده أو إدخال أي تعديلات عليه سواء بالإنشاء أو الحذف، ويعد الإثبات انقياً إذا شابه شيء من ذلك، كما يعرض صاحبه للمساءلة القانونية.

This proof has been issued electronically and does not require a signature

This proof has been issued upon the request of the above-named, and it is absolutely prohibited to imitate it or make any modifications to it, whether by addition or deletion, and the proof is considered void if it is marred by something, and its owner is subject to legal accountability.

National Housing Company - Al Mashriqiya		الشركة الوطنية للاسكان - مشروع المشرقية	
Client: الشركة الوطنية للاسكان National Housing Company NHC	Project: المشرقية	Contractor:	

Supplier's Approval Form						
To: NHC - Technical Support Department				From: شركة إشراقة التميز		
Attention: Moatasem Al Othman				By: Moataaz AlKholi		
TRM No.:	CONT	PROJ	ZONE	TRADE	NO	REV
	ISH	MSH	D	ST	50025	0
<input checked="" type="checkbox"/> Structure	<input type="checkbox"/> Architectural		<input type="checkbox"/> Electrical		<input type="checkbox"/> Mechanical	
1. Contractor Information:			Submission Date:		21-Sep-24	
Contractor Name / Role:		Ishrakat Al-Tamayouz				
Tel. No.:	00966507976000		Email:	Moataz20146016@gmail.com		
2. Manufacturer ,Supplier or Sub-Contractor Information						
Company Name :		شركة حديد نور للصناعة/				
Address:					Tel. No:	0114997471
Email:		INFO@noursteel.com				
Reason for Selection:					Stamp:	
Sub-Contracted Works:		حديد - حديد أقطار - المواد الانشائية				
Section of the Works:						
BOQ Items:						
Commercial Register Certificates:		1- Commercial Registration Certificates. 2- Chamber of Commerce 3- GOSI 4- Saudization 5- Zakat 6- VAT Certificate 7- ISO Certificate 8- SASO				
Submitted By:	Eng. Moataaz AlKholi		Signature:			Date : 21-Sep-24

4. Comments : * بعد الاطلاع على الملف التأهيلي للمصنع والشهادات والاختبارات والاوراق الحكومية والزيارة التي تمت للمصنع وبعد أخذ* : وإجراء بعض الاختبارات اللازمة لها ، لا مانع من اعتماد GRADE 60 (420) عينات من حديد التسليح للأقطار (12 و 14 و 16 و 18 و 20) مم ل فقط GRADE 60 (420) بأقطار (12 و 14 و 16 و 18 و 20) مم ل (Deformed Carbon-Steel Bars) المصنع بالمشروع لتوريد حديد تسليح . يجب ان تكون الاوراق والشهادات الحكومية سارية طوال فترة التوريد بالمشروع* يتم متابعة التوريدات بالموقع وعمل الاختبارات الدورية اللازمة عليها عن طريق مختبر طرف ثالث معتمد تحت اشراف الاستشاري*			
Sample	Tests	Additional Info.	Manufactures Guarantee
<input type="checkbox"/> A - Approved	<input checked="" type="checkbox"/> B - Approved As Noted	<input type="checkbox"/> C - Revise & Resubmit	<input type="checkbox"/> D - Rejected
Technical Engineer:	Signature:	Technical Project Manager:	Signature:

National Housing Company - Al Mashriqiya		الشركة الوطنية للإسكان - مشروع المشرقية	
Client:		Project:	
		Contractor:	

Name:	Eng. Moatasem Al Othman	Name:	Eng. Mohamed Assaf
Date:	16-Oct-24	Date:	17-Oct-24
Approval shall not relieve Contractor of his liabilities under the contract or constitute authorization of any change to contract document.		لا تعفي الموافقة المقاول من مسؤولياته بموجب العقد أو تشكل تفويضا بأي تغيير في مستند العقد.	



وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture
المملكة العربية السعودية Kingdom of Saudi Arabia



(٢٧٤)

الإدارة العامة للشؤون الهندسية
إدارة دراسات وتصاميم المشاريع
٨١٦

المحترمين

السادة / شركة نور حديد للصناعة

رقم المبنى: ٧٦٠٣ الرقم الإضافي: ٤٣٩٩
الرمز البريدي: ١٦٤١٦ رقم الوحدة: ١
اسم الشارع: الخرج-المدينة الصناعية
السجل التجاري: ١٠١١٤٤٥١٢

السلام عليكم ورحمة الله وبركاته

إشارة إلى خطابكم رقم ٥١٩٢٨٠٦ بتاريخ ١٤٤٥/٠٧/٠٢ هـ بشأن طلب اعتماد شركتكم في إنتاج الحديد المسلح مقاس (٨،١٠،١٢،١٤،١٦،١٨،٢٠،٢٥،٣٢) ملم

نفيدكم انه بعد زيارة المصنع والاطلاع على الملفات المرفقة ودراستها بأنه لا مانع لدينا من انضمامكم لقائمة الشركات المؤهلة لدينا وتأهيل انتاج الحديد المسلح للمقاسات المذكورة أعلاه لمدة (عامين) من تاريخه وذلك عند الحاجة إليها على أن يقوم المقاولين بإختبار المنتجات بمختبرات محايدة عند التعاقد عليها للتأكد من مطابقتها للمواصفات الفنية وان لا تتحمل الوزارة أي تكلفة لهذه الاختبارات.

وتقبلوا اطيب تحياتي ،،،

مدير عام الإدارة العامة للشؤون الهندسية

م. كنعان بن عيسى الكنعان

م/ تركي بن عبد العزيز الجديد



رقم الصادر : 0010
التاريخ الميلادي : ٢٠٢٤/٠١/٢٨
التاريخ الهجري : ١٤٤٥/٠٧/١٦
المرشقات : بدون



بيانات المعاملة

وزارة النقل والخدمات اللوجستية
Ministry of Transport and Logistic Services



الموضوع: بخصوص طلب اعتماد منتج لشركة حديد نور

المحترمين

السادة شركة حديد نور للصناعة

(٧١٠٣ شارع ٥٩ - المدينة الصناعية بالخرج | الخرج ١٦٤١٦ - ٤٣٩٩)

السلام عليكم ورحمة الله وبركاته

إشارة إلى خطابكم رقم بدون وتاريخ بدون والمورد للوزارة برقم ٧٤١٤ وتاريخ ١٤٤٥/٧/١٣هـ وخطابكم رقم بدون وتاريخ بدون المورد للوزارة برقم ٤٧٢٦ وتاريخ ١٤٤٥/٧/٤هـ بخصوص طلب اعتماد مصنعكم القائم في مدينة الرياض / الخرج / المدينة الصناعية لإنتاج المواد التالية:

الأقطار (ملم)									نوع التسليح
٣٢	٢٥	٢٠	١٨	١٦	١٤	١٢	١٠	٨	حديد التسليح درجة ٦٠ (Grade ٦٠)

نفيدكم بقيام المختصين لدينا بمراجعة الملف المرفق والاختبارات التي تمت من قبلكم ومن ثم زيارة مصنعكم في مدينة الرياض / الخرج - المدينة الصناعية والاطلاع على أساليب ضبط الجودة لديكم وتفقد خطوط الإنتاج وأخذ عينات وإجراء بعض الاختبارات اللازمة لها وتبين مطابقة الأتي:

الأقطار (ملم)									نوع التسليح	
٣٢	٢٥	٢٠	١٨	١٦	١٤	١٢	١٠	٨	حديد التسليح درجة ٦٠ (Grade ٦٠)	✓

لذا لا مانع من استخدام منتجاتكم المطابقة للمواصفات في مشاريع الوزارة ولمدة ثلاث سنوات من تاريخ خطابنا هذا. علماً أنه ستكون هناك زيارات دورية لضمان استمرار الجودة.

وتقبلوا أطيب تحياتي...


رقم الصادر : 0010
التاريخ الميلادي : ٢٠٢٤/٠١/٢٨
التاريخ الهجري : ١٤٤٥/٠٧/١٦
المرفقات : بدون



مدير عام الإدارة العامة للجودة والبيئة
تم اعتماد الخطاب إلكترونياً
العباس بن احمد الحازمي

- ص / مع النحية ل سعادة مدير إدارة المواصفات والمقاييس
- ص / مع النحية ل سعادة مدير قسم المختبر المركزي

تأكيد العضوية في برنامج صنع في السعودية

السادة/ شركة حديد نور للصناعة

السلام عليكم ورحمة الله وبركاته، وبعد،

نرحب بكم أعضاء في برنامج "صنع في السعودية" ويسعدنا انضمامكم للبرنامج ومساهمتم في تحقيق أهدافه الرامية إلى تعزيز الثقة بالمنتج الوطني وتفعيل دوره في تنمية الناتج المحلي السعودي غير النفطي، مما يساهم في جعل المملكة قوة صناعية رائدة وفقاً لأهداف رؤية السعودية 2030.

يعد هذا الخطاب بمثابة تأكيد على أن شركتكم الموقرة والمنتجات المسجلة والموافق عليها تستوفي المعايير المطلوبة للانضمام لبرنامج صنع في السعودية، على أن يمثل جميع الأعضاء امتثالاً كاملاً لقواعد البرنامج طوال فترة صلاحية العضوية، واعتباراً من تاريخ هذا الخطاب، يحق لشركتكم استخدام علامة "صناعة سعودية" على المنتجات المسجلة والمعتمدة، والاستفادة من مزايا العضوية.

وبناءً عليه، نأمل منكم تعريف جميع الموظفين المعنيين بتطبيق العلامة الصناعية بقواعد البرنامج وإرشادات استخدامها على المنتجات والمواد الترويجية الخاصة بالشركة.

وفي حال وجود أي استفسارات أو متطلبات، يسعدنا خدمتكم بتواصلكم معنا عبر البريد الإلكتروني: members@saudimade.sa

نائب قطاع صنع في السعودية والترويج

أ. فيصل بن أحمد المغلوث

٢٠٢٠



Saudi Aramco E-Reference No. 0011528

Registration Approval Letter

December 02, 2024

Attention : NUOR STEEL INDUSTRY COMPANY

CR Number : 1011144512

Supplier Type: Manufacturer Only

Country : Saudi Arabia

We are pleased to inform you that NUOR STEEL INDUSTRY COMPANY is now registered in the Saudi Aramco Supplier Management System under Vendor Code No. 10114359, provided your company continues to meet all relevant Saudi Arabian and Saudi Aramco standards.

This registration, however, should not be construed as a commitment by Saudi Aramco to procure from you. Being registered as a supplier only grants your company the opportunity, along with other registered sources, to respond to requests for submitting proposals in accordance with Saudi Aramco's established policies and procedures. All procurement instruments including but not limited to service contracts, purchase agreements, or purchase orders will be issued based on the name and address included in your commercial registration (CR), as stated in your Supplier Registration.

Saudi Aramco wishes to remind you that being recognized as a supplier carries with it serious obligations and responsibilities to act in a legal and ethical manner. We wish to remind you of the Saudi Aramco Supplier Code of Conduct (SCOC) which you acknowledged. Failure to abide by the principles set forth in the SCOC can result in adverse actions being taken by Saudi Aramco against you including suspension of you as a supplier. Saudi Aramco also expects each of its suppliers to satisfy each of the requirements of any procurement instrument which might be placed and to act responsibly and reliably as a supply chain supplier.

Material Suppliers should apply for Saudi Aramco Supplier Portal access by forwarding a request to portal-registration@aramco.com. The Supplier Portal is the main electronic business tool used between Saudi Aramco and its suppliers and serves to improve the flow and accuracy of key supply chain information.

For further information or assistance please contact the Saudi Aramco Supplier Help Desk by forwarding a request to SupplierHelpDesk@aramco.com or via the unified call center 800-116-1168 for In-Kingdom suppliers or +966 (11) 290-8950 for Out-of-Kingdom suppliers.

Faisal Hamad Al Dossary, Supervisor
Supplier Registration Unit
Supplier Relationship Management Div

It is the responsibility of the supplier to update Saudi Aramco Supplier Registration Profile through Ariba for the following:

1. Change of Name / Commercial Registration Number / Address / Owner(s)
2. Any change of the supplier location
3. Discontinue supply of approved commodities (9COMs and 9CATS)

This is an electronically generated letter by Saudi Aramco. To verify Supplier approval status, please contact Supplier Help Desk at supplierhelpdesk@aramco.com