



الحديد الوطني السعودي

SAUDI NATIONAL STEEL FACTORY

ISO 9001:2015 CERTIFIED COMPANY



Partners in growth....

CORPORATE IDENTITY



is a fully owned company of



**Al Nasser Industrial
Enterprises L.L.C.**

Al Nasser Industrial Enterprises LLC (ANIE) is a renowned industrial conglomerate, based in Abu Dhabi - UAE, with manufacturing activities in sectors like Steel, Polymers, Structural Fabrication and Industrial Intermediates located across the AGCC & MENA region.

ANIE was established in 1992 by Al Nasser Holdings LLC to set up successful industrial ventures and establish a strong presence in the AGCC region. Over the following two decades, the goals and strategies initially envisioned have been translated into remarkable achievements resulting in tremendous growth and firmly establishing ANIE as a private sector leader.

Since its inception in 1992, Al Nasser Industrial Enterprises LLC has consistently striven to enhance its products and services through continuous development of advanced technologies in-house. In its quest to achieve sustainable development, it has focused on placing environmental, health and safety issues at the forefront at all times.

ANIE is, today, one of the leading industrial holding companies in the UAE, and is poised for exponential growth.

Employing over 900 personnel, ANIE has manufacturing companies located in UAE, Saudi Arabia, Oman, Bahrain and Djibouti.

Al Nasser group's presence in the Kingdom of Saudi Arabia is supported by the following companies:

- **Geyad Company** - focused on **steel structural fabrication** for Aramco, Hyundai, etc.
- **Saudi Polycon Ltd.** - delivering quality **water tanks** since 2000.

OUR VISION

- To deliver excellence in customer service and to operate with social responsibility & integrity.
- To manufacture products in AGCC & MENA regions to foster self reliance.
- To become a reputed and cost-effective producer with a regional market reach.

VALUES

Teamwork, integrity, professionalism, customer service, transparency with safety, health & environment preservation.

ABOUT US

Saudi National Steel is a pivotal part of the Al Nasser Industrial Enterprises L.L.C and its steel foray into Saudi Arabia. It is a top quality construction steel producer. In line with our aspirations, Saudi National Steel has expanded its customer base beyond the boundaries of the Eastern Region of KSA and caters to customers in other rapidly growing markets across the Kingdom region.

Saudi National Steel is an ISO 9001:2015 certified company.

The company manufactures hot rolled low carbon steel bars (Deformed Steel Bars) through Thermo Mechanical Treatment (TMT) process in sizes ranging from 8 mm to 32 mm and in lengths varying from 6 meters to 12 meters. The specification followed is **ASTM A615 Gr. 60**.

The company has expansion plans for producing Channels, Angles and Square Bars. Saudi National steel is currently capable of rolling out 150,000 TPA of Deformed Steel Bars.



FACILITIES

- Rolling Mills with TMT Process, Automatic Cooling Bed and material handling equipment.
- A fully equipped testing lab comprising a Universal Testing Machine to check yield strength, tensile strength and elongation.
- Re-bending machine for bend and re-bend testing.
- Spectrometer for checking chemical composition of raw material and finished product.

PRODUCTS

Re-Bars



- High Yield Deformed Steel Bars for concrete reinforcement.
- TMT-quenching production process for superior mechanical properties, flexibility and welding, and resistance to corrosion.
- Grade: ASTM A615 Grade 60/40, SASO 2/1992.
- Sizes: 8 mm to 32 mm diameter
- Length: Straight Length of 12 meters or in special lengths ranging from 6 meters to 15 meters.

MANUFACTURING PROCESS



Saudi National Steel produces Deformed Steel Bars from prime quality Billets manufactured in-house. The Billets are inspected and stacked according to cast numbers. Pre-sized Billets are charged to a pusher-type, temperature-controlled Re-heating Furnace.



Heated Billets are passed through various stands to arrive at desired size. From the finishing stand, the bars are passed through a Thermo Mechanical Treatment (TMT) process wherein the hot bar is rapidly cooled by water to achieve high strength with high ductility. Due to rapid controlled cooling, surface temperature of the bar reduces quickly and forms a martensite structure. Core of the bar remains fine grain ferrite pearlite. This provides enhanced strength with ductility to the finished material.

Bars are cut by a Flying Shear to required length and passed through twin channels to a walking beam-type cooling bed. The cooled bars are sheared using a finishing shear to standard length (12 meters), bundled (2 tons) and sent for storage at finished goods storage area.

PRODUCT SPECIFICATIONS

Reinforcement/Deformed Steel Bars

Type	Min Yield Strength (MPa)	Min Tensile Strength (MPa)	Standards Complying to	Sizes (Dia)
High Yield Deformed Re-Bar	420	620	ASTM A 615, Gr. 60	8mm to 32 mm

Chemical Composition

Size Range (mm)	Product Specification	Process Route	C%	Si%	Chemical Analysis		
					Mn%	P% Max	S% Max
8-32 Rebar	ASTM A615 Gr 60	Quenching	0.25 Max	0.15-0.30	0.55-1.1	0.045	0.045

Dimensions

Nominal Diameter (mm)	No. of Bars per Bundle of (2 MT)	Nominal Weight (kg/m)	Nominal Area (sq.mm)	Max. Average (mm)	Transverse Rib Height (mm)		Longitudinal Rib
					Min	Max	Max
8	422	0.395	50.30	5.60	0.52	0.96	0.80
10	270	0.616	78.54	7.00	0.65	1.20	1.00
12	188	0.888	113.00	8.40	0.78	1.44	1.20
14	138	1.208	154.00	9.80	0.91	1.68	1.40
16	106	1.579	201.00	11.20	1.04	1.92	1.60
20	68	2.466	314.00	14.00	1.30	2.40	2.00
25	44	3.854	491.00	17.50	1.63	3.00	2.50
28	35	4.830	616.00	20.50	1.85	3.34	2.75
32	26	6.313	804.00	22.40	2.08	3.84	3.20

* The company can also deliver non-standard sized re-bars as per specific needs of projects.

QUALITY ASSURANCE PLAN

The latest technologies and industry best practices are used in Saudi National Steel to aid and hone the manufacturing expertise. The Quality Control department is equipped with the most advanced computerized monitoring and testing systems. Engineering and R&D division continuously strive towards betterment of product quality. And, of course, the company is **ISO 9001:2015 certified**.

Saudi National Steel maintains Total Quality Management (TQM) systems at all stages of production. International Quality Control Standards are followed for every process - from testing basic raw material to certifying final product.

The below steps are followed to ensure Total Quality, which is a way of life at Saudi National Steel:

- Careful selection of basic raw material.
- Chemical analysis of hot material samples.
- Analysis of physical and chemical properties of Billets.
- Re-heating furnace temperature check.
- Checking size and gauge at final stage.
- Checking of final mechanical, chemical and physical properties of finished product.





**SUPERIOR
QUALITY**

PHYSICAL AND CHEMICAL TESTING LABORATORY

Saudi National Steel is fully equipped with the best-in-class equipment required for quick testing and reporting.

- Universal Tensile Testing Machines (100T) capacities
- Bending Machine for Bend/Rebend Test

Saudi National Steel produces highgrade TMT construction rods. The mill is technologically advanced and uses semi-automatic rolling to ensure quality. Due to low carbon content and strict quality control, the TMT process bars are highly flexible, do not lose strength at weld joints and provide good elongation. The special design of bars allow excellent bonding properties and longer life.

CERTIFICATES & ACCREDITATIONS



Standard
Solutions

Certificate of Registration

This is to certify that
Quality Management System of

Saudi National Steel Factory

Dammam Industrial City – 3, After Half Moon Beach
(Behind Modon Industrial Office), Dammam,
Kingdom of Saudi Arabia

has been assessed as conforming to the requirements of

ISO 9001:2015

for the scope of activities

**Manufacture and supply of steel billets, hot rolled
deformed, plain steel bar, square bar, channel, and
angle bars in cut to length**

Certificate No: **A5-1100Q**

Issue Date: **08 May 2017**

Valid until **07 May 2020** subject to ongoing successful surveillance audits and maintenance of relevant management system requirements as per Standard Solutions (UK) Ltd regulations.

This certificate is the property of Standard Solutions (UK) Ltd. and must be returned in case of cancellation.



CB-010

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Authorised Signatory

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UP COMING PRODUCTS



CHANNELS

(100x50 mm
75x40 mm)



ANGLES

(65x65x6 mm
60x60x5 mm)



SQUARE BARS

(25x25 mm, 20x20 mm,
16x16 mm, 12x12 mm)

CONTACT US

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