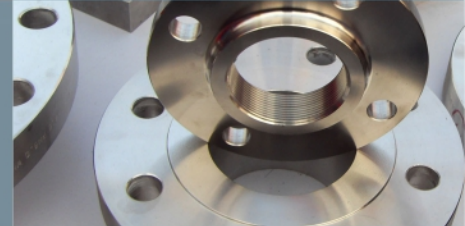
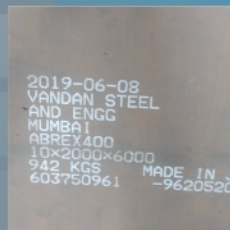


**AUTHORISED DISTRIBUTERS, IMPORTERS,
 STOCKISTS & SUPPLIERS OF:**

- WEAR PLATES
- PIPE
- PLATE
- PIPE FITTINGS
- FLANGES
- VALVES
- FASTENERS



We define the
Quality

- ABREX 400
- ABREX 450
- ABREX 500
- WELTEN 780E
- ABREX WEAR PARTS



**VANDAN STEEL
 & ENGG. CO. —**

VANDAN STEEL & ENGG CO are distributor, Importers, suppliers and stockists of NIPPON STEEL CORPORATION - JAPAN.

ABREX

We are having biggest stock and prepared load of around 1000 tons of ABREX 400/450/500 Plate in various size, grades and cuts.

Our fabricating system is upheld by escalated in-house item assessment and testing and authorize to meet all the most perceived global principles, including ISO 9001:2015

We are had practical experience in offering exactness designed ABREX Plate , which are utilized as a part of different applications.

ABREX PLATES demonstrates a phenomenal solidification of high imperviousness to impact, workability, weld limit and imperviousness to scraped area.

ABREX PLATES has around 3 times the scraped area resistance of ordinary steel plate and helps drawing out the organization life of mechanical parts.

Introducing the ABREX Series

The ABREX* Series features 4 standard options of abrasion resistant steel plate in addition to 3 extra tough options-a product range capable of meeting a variety of needs. All of our products are maintained at very low impurity levels, making them well suited to welding and formability.

*** Specifications by Type and Designation**

Type	Designation	Plate Thickness t (mm)	Brinell Hardness (HBW)*1		Charpy Impact Test (L Direction)*2	
			Aiming	Range	Test Temperature (°C)	Absorbed Energy (J)
Standard Type	ABREX 400	6(4.0) - 100	400	360 - 440	-	-
	ABREX 450	6(4.5) - 50	450	410 - 490	-	-
	ABREX 500	6(4.5) - 50	500	450 - 550	-	-
	ABREX 600	6 - 25	600	550 - 650	-	-

please consult with us with regard to the figures in parenthesis above.

1. The Brinell Hardness value is an average of measurements taken from three points on the steel plate surface. A section of the surface from which the decarburized layer is ground off by about 0.7mm should be used as the specimen surface. Prior consultation is recommended in the case of using thicknesses surpassing those listed above.
2. The Charpy Impact Test shall be applied to steel plates thicker than 12mm.

Type	Designation	Chemical Composition (%) *1										
		C	Si	Mn	P	S	Ni	Cr	Mo	B	Pcm (t: thickness)*2	
		t 25	t 25									
Standard Type	ABREX 400	0.21	0.70	2.00	0.025	0.010	1.00	1.20	0.60	0.005	0.30	0.35
	ABREX 450	0.23	0.70	2.00	0.025	0.010	1.00	1.20	0.60	0.005	0.36	0.36
	ABREX 500	0.35	0.70	2.00	0.015	0.010	1.00	1.20	0.60	0.005	0.42	0.42
	ABREX 600	0.45	0.70	2.00	0.015	0.010	1.00	1.20	0.60	0.005	0.54	-

1. Elements other than those listed in the table can be added as necessary.

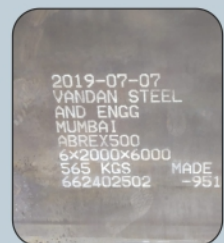
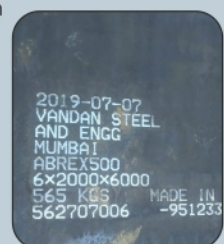
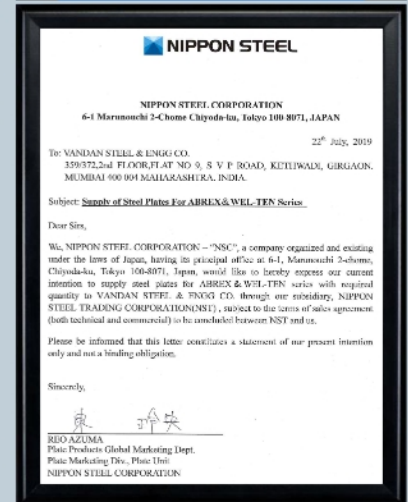
2. Pcm=C $\frac{Si}{30} \frac{Mn}{20} \frac{Cu}{20} \frac{Ni}{60} \frac{Cr}{20} \frac{Mo}{15} \frac{V}{10} 5B\%$

*** Typical Properties and Characteristics**

Type	Designation	Thick-ness ()	Brinell Hardness (HBW)	Mechanical Properties (Reference Values)						
				Tensile Tests		Bending Tests			Charpy Impact Tests	
				Yield Strength (N/mm2)	Tensile Strength (N/mm2)	Bend Radius (t:thickness)	Angle	Result	Temperature (°C)	Absorbed Energy (J)
Standard Type	ABREX 400	25	414, 417, 416	1075	1322	3t	180	No cracking	0	73
	ABREX 450	25	458, 453, 459	1192	1469	3t	180	No cracking	0	57
	ABREX 500	25	513, 509, 520	1373	1552	3t	180	No cracking	0	43
	ABREX 600	25	611, 606, 601	1568	2058	-	-	-	0	13

*** Precautions for Use**

Increasing the thickness of the steel plate will lead to a slight decrease in the hardness of the central portion of the plate. In the event that these steel plates need to perform at high temperatures, please consult with us prior to placing your order. In the event that these steel plates need to perform at low temperatures, please select the Extra Tough steel plate options.

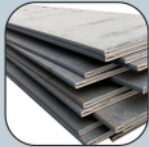


MILD STEEL / CARBON STEEL

Industrial, Commercial Grades as per IS specifications.



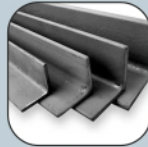
MS COIL



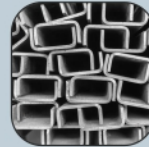
MS PLATES



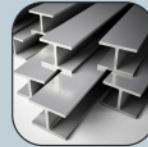
MS TOR STEEL



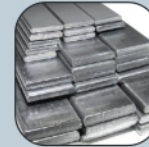
MS ANGLE



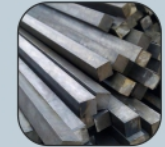
MS CHANNEL



MS BEAM



MS FLAT



MS ROUND /
SQUARE BARS



MS PIPES



MS HOLLOW PIPE



MS PIPE FITTINGS



MS FLANGES



MS VALVES



MS FASTENERS



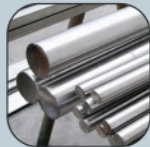
MS WIRE ROD



MS WELDING
ELECTRODES

STAINLESS STEEL

Grades Available : AISI 201, 202, 409, 410, 416, 420, 430, 431, 304, 304L, 316, 316L, 317, 321, 347, 17-4PH and other high nickel grades as per IS specifications.



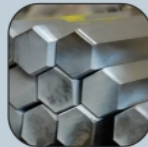
SS ROUND BARS



SS WIRE RODS



SS BRIGHT BARS



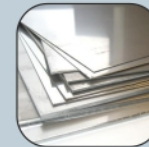
SS HEXAGONS/
SQUARES



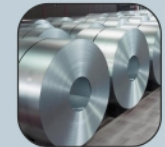
SS FLAT ANGLE
BARS



SS PIPES



SS SHEETS



SS COILS



SS TUBES



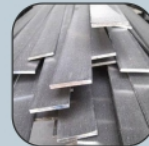
SS FITTINGS



SS FLANGE



SS FASTENERS



SS STRIPS



SS WELDING FILLER
WIRE



SS CIRCLE



SS FERRULE FITTING

COPPER

Industrial, Commercial Grades as per IS specifications.



COPPER SHEETS



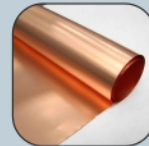
COPPER CIRCLE



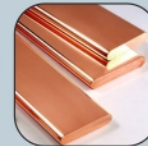
COPPER RODS



COPPER STRIPS



COPPER FOIL



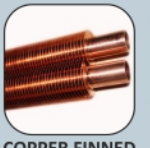
COPPER BUS BARS



CUPRO NICKEL TUBES
70/30, 90/10, 95/5 grades



COPPER PANCAKE
COILS



COPPER FINNED
TUBE



CUPRO NICKEL
WIRES/RODS



BARE COPPER
WIRES



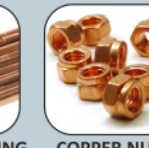
COPPER INGOTS



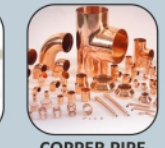
COPPER PLATES



COPPER
RIVETS/NAILS



COPPER BRAZING
RODS

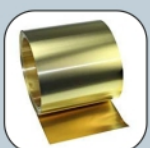


COPPER NUT

COPPER PIPE
FITTING

BRASS

Industrial, Commercial Grades as per IS specifications.



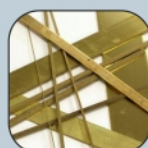
BRASS SHEETS



BRASS CIRCLES



BRASS RODS



BRASS STRIPS /
FLATS



BRASS COILS WIRES



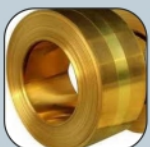
BRASS TUBES



BRASS BRAZING
WIRES



BRASS FOILS



BRASS STRIPS
IN COIL FORM



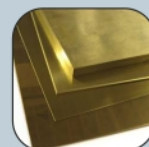
ADMIRALTY
BRASS



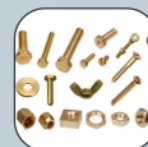
ALUMINIUM
BRASS



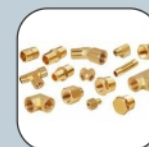
BRASS 70/30
SUGAR TUBE



BRASS PLATES



BRASS FASTENERS



BRASS FITTINGS



BRASS FLANGE

ALUMINIUM

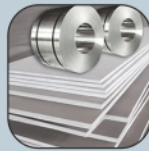
Industrial, Commercial Grades as per IS specifications.



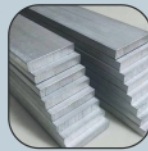
ALUMINIUM
RODS



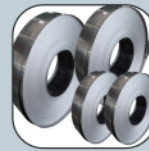
ALUMINIUM
PIPES



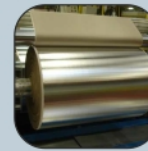
ALUMINIUM
SHEET/COILS



ALUMINIUM
FLATS



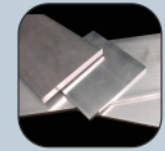
ALUMINIUM
STRIPS



ALUMINIUM
FOILS



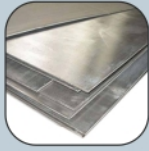
ALUMINIUM
WIRES



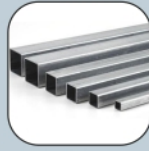
ALUMINIUM
BUS BARS



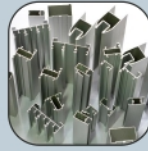
ALUMINIUM
INGOTS



ALUMINIUM
PLATES



ALUMINIUM
SQUARE PIPE



ALUMINIUM
SECTION



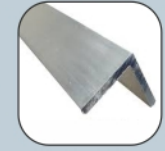
ALUMINIUM
CHEQUERED PLATE



ALUMINIUM
CIRCLE



ALUMINIUM
BOLTS

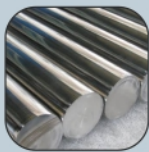


ALUMINIUM
ANGLE

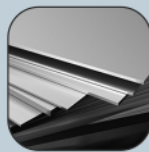
OTHER MAJOR PRODUCTS



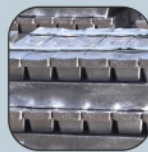
NICKEL PLATES



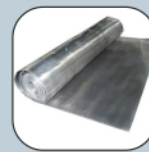
NICKEL ALLOY
RODS



NICKEL ALLOY
SHEETS



LEAD INGOTS



LEAD SHEETS



LEAD WOOL



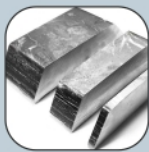
LEAD SOLDER WIRES



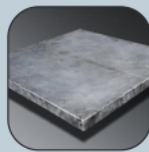
TIN INGOTS



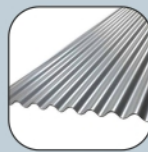
WHITE METAL
PLATES



ZINC INGOTS



ZINC PLATES



ZINC SHEETS



PHOSPHOR
BRONZE SHEET



PHOSPHOR
BRONZE RODS



PHOSPHOR
BRONZE BUSHES



GUN METAL

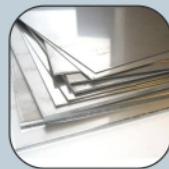
SPECIALIZED PRODUCTS



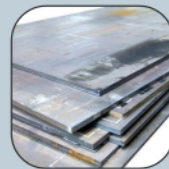
HIGH
MANGANESE
PLATES



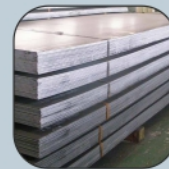
ARMOUR
PLATES



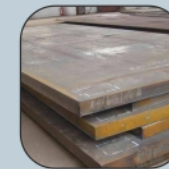
ALLOY PLATES-
SA387 GR 11/12/22/91



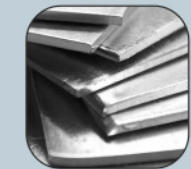
BOILER PLATE-
516 GR 70



PRESSURE VESSEL
PLATES-SA537 CL 1/2



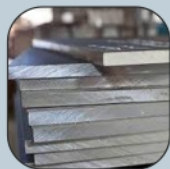
CORTEN STEEL



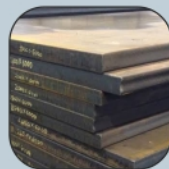
QUENCHED &
TEMPERED PLATE-
S690QL/S700MC



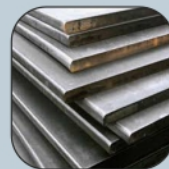
SAILMA PLATE-
300,350,410,
450



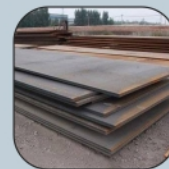
200 BRINEL WEAR
PLATE-UTTAMHARD/
SAILHARD



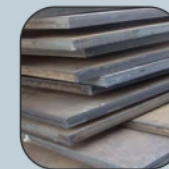
16 MO3



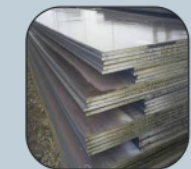
C 45



EN-19



283 GRC



204 GR A-B



**VANDAN STEEL
& ENGG. CO. —**

Office: 359 / 373, Flat No. 9, 2nd Floor, Minerva Mansion,
S.V.P. Road, Khetwadi, Mumbai-400 004.

Tel.: +91-22-2389 3665 / 6636 2872

Email: info@vandansteel.com

Web.: www.abrexplate.com / www.wearplates.co.in
www.vandansteel.com