

HOT ROLLED REBARS

Specification	Grade	Size (mm)	Remarks
JISG3112	SD 35	16,20,25 &	"*" In straight lengths 12 + 0.1m allowable short length 2%
JISG3112	SD 35	8, 10, 12	In coils of dimensions as for Wire Rod Coils

Note: "*" Sizes (mm) 18, 28 & 32 can also be supplied subject to economic quantity of orders.
Rib pattern on rebars will be as per VSP's design.



EXPORT PRODUCTS

WIRE RODS

MEDIUM / LOW CARBON

Specifications	Grade / Chemistry	Remarks
ASTM A510-00	SAE 1008 (Si-0.30% Max)	UTS: 430 N/ mm ² Max
ASTM A510-00	SAE 1010 (Si-0.30% Max)	UTS: 450 N/ mm ² Max.
ASTM A510-00	SAE 1012 (Si-0.30% Max)	UTS: 470 N/ mm ² Max.
ASTM A510-00	SAE 1015 (Si-0.30% Max)	UTS: 510 N/ mm ² Max.

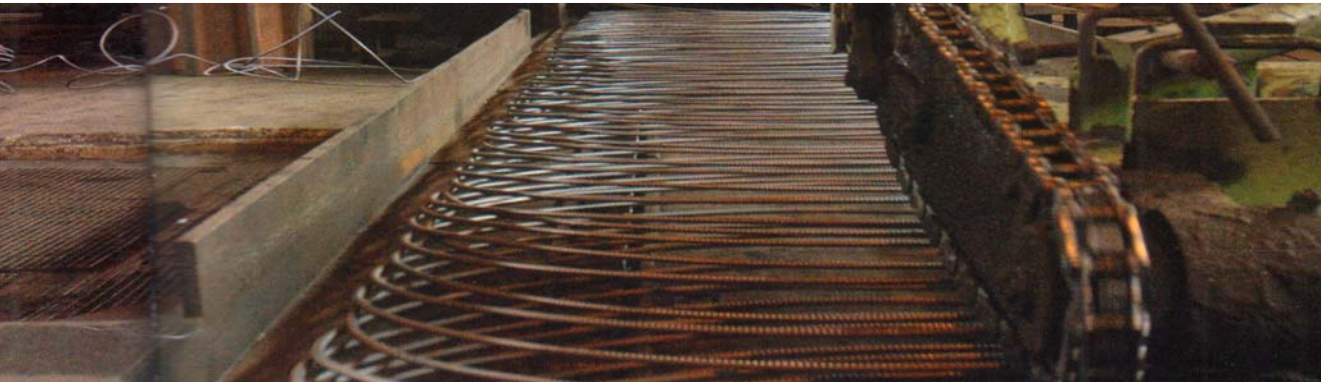
Electrode Quality C- 0.10% Max; S,P & Si-0.03% each Max; Mn-0.35-0.62% & Al-0.02-0.05%



HIGH CARBON

MECHANICAL PROPERTIES

Grade	C%	Mn%	S& P%	Si%	UTS (Kgf/mm ²)			%EL	%RA
					5,5, 6 & 6.5 mm	7,8 & 9 mm	10,11 & 12 mm		
					Min	Min	Min		
HC 50	0.46 - 0.50	0.50 - 0.80	0.035 Max	0.15-0.35	80 – 90	75 – 85	70 – 80	16	40
HC 55	0.51 - 0.55	0.50 - 0.80	0.035 Max	0.15-0.35	85 – 95	80 – 90	75 – 85	15	35
HC 60	0.56 - 0.60	0.50 - 0.80	0.035 Max	0.15-0.35	90 – 100	85 – 95	80 – 90	15	35
HC 65	0.61 - 0.65	0.50 - 0.80	0.035 Max	0.15-0.35	95 – 105	90 – 100	85 – 95	13	30
HC 70	0.66 - 0.70	0.50 - 0.80	0.035 Max	0.15-0.35	100 – 110	95 – 105	90 – 100	13	30
HC 75	0.71 - 0.75	0.50 - 0.80	0.035 Max	0.15-0.35	105 – 115	100 – 110	95 – 105	12	25
HC 80	0.76 - 0.80	0.50 - 0.80	0.035 Max	0.15-0.35	110 – 120	105 – 115	100 – 110	12	25
HC 85	0.81 - 0.85	0.50 - 0.80	0.035 Max	0.15-0.35	115 – 125	110 – 120	105 – 115	11	25



Note : Coil Dimensions (mm) : ID - 725 (Min), OD - 1250 (Max); Height - 1400 (Max);

Weight : 1.2 MT (approx);

Sizes (mm) - 5.5, 6.0, 6.5, 7.0, 8.0, 10.0 & 12.0; Order Qty per size: 1000 MT (Min)

Order / Quotes for lower percentage of 5.5 mm size will be preferred;

Offers with lower Si content also can be considered depending on Al content permissible.

OTHER SECTIONS

EQUAL ANGLES

Size (mm)	Sec. Wt. (Kg/M)	
100x100x8/10	12.10/14.90,	+ 5% - 3%
90 x 90 x 6 / 8	8.20 / 10.80,	+ 5% - 3%
75 x 75 x 6 / 8	6.80/8.90,	+ 5% - 3%
65 x 65 x 6	5.80	+ 5% - 3%

BEAMS

Size (mm)	Thickness of Web (mm)	Sec. Wt (Kg / M)
180 x 91	5.3 ± 0.7	18.80 ± 4%
120 x 114	5.0 ± 0.7	19.90 ± 4%

Flange Thickness: 8.0 mm ± 1.0 mm for both

EQUAL ANGLES

Size (mm)	Sec. Wt. (Kg/M)
150 x 75 x 5.7	16.8 ± 2.5%
125 x 65 x 5.3	13.1 ± 2.5%
100 x 50 x 5.0	9.56 ± 2.5%
75 x 40 x 4.8	7.14 ± 2.5%

BEAMS

Size (mm)	Length	Chemistry
125 x 125	10m ± 0.4	See note below
75 x 75	6 m ± 0.1	
65 x 65	6 m ± 0.1	IS : 2830 (C : 0.12-0.23% Si : 0.40% Max; Mn: 0.3-1.5% S & P :0.05 % Max)



PIG IRON

C	Mn	Si	P	S
* 3.5 - 4.8%	1 % Max	1.25% Max	0.12% Max	0.05 Max

(* average value of the lot)

Basic grade steel making pig iron, pigs are of two notches upto 45 kg in weight. Chips/Broken Pieces below 25 mm not exceeding 5%; dust, dirt and moisture exceeding 0.5% deductable from draft survey weight.

SLAG

Specification:	CaO : 30 - 40 %, MgO : 7 - 11 %,	SiO ₂ : 30 - 40%, FeO : 5 % Max,	Al ₂ O ₃ : 14 - 22 % MnO : 2% Max
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Note: Chemistry for Billets: C : 0.14 - 0.20% ; Mn : 0.5-0.9% ; S/P : 0.05% Max; Si : 0.35%Max or SAE 1015 ; or other chemistry to be agreed.



EXPORT PRODUCTS



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ROUNDS

Size (mm) 16, 20, 25, 28, 32, 33.5, 34, 36, 40, 42, 45, 46.5, 50, 53, 56, 60, 65, 71 & 80
Specifications EN8, EN8D, EN9, SAE 1045, SAE 1020 & IS : 2062 - 2006

Note: Chemistry (other than Billets) JIS G 3101 SS 400 or IS : 2062-2006;
Bundle wt.: 5MT (Max); Length: 12± 0.1m (for 6± 0.1 m ends would be gas cut);
Allowable short length upto 2%