

LIST OF PRODUCTS OFFERED FOR EXPORT FROM VSP

1. WIRE RODS :

Specifications	Grade/ Chemistry	Remarks
ASTM A510-96	SAE 1008 (Si-0.30%Max)	UTS: 430 N/mm2 Max.
ASTM A510-96	SAE 1010 (Si-0.40%Max)	UTS: 450 N/mm2 Max.
ASTM A510-96	SAE 1012 (Si-0.40%Max)	UTS: 470 N/mm2 Max.
ASTM A510-96	SAE 1015 (Si-0.40%Max)	UTS: 510 N/mm2 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

Grade	C %	Mn %	S & P %	Si%	MECHANICAL PROPERTIES - UTS (KGF/MM.Sq)			%EL	%RA
					5.5, 6& 6.5mm	7,8 & 9mm	10 & 12mm	min.	min.
HC 50	0.46 - 0.50	0.50-0.80	0.04 Max	0.15-0.35	80 - 90	75 - 85	70 - 80	16	40
HC 55	0.51 - 0.55	0.50-0.80	0.04 Max	0.15-0.35	85 - 95	80 - 90	75 - 85	15	35
HC 60	0.56 - 0.60	0.50-0.80	0.04 Max	0.15-0.35	90 - 100	85 - 95	80 - 90	15	35
HC 65	0.61 - 0.65	0.50-0.80	0.04 Max	0.15-0.35	95 - 105	90 - 100	85 - 95	13	30
HC 70	0.66 - 0.70	0.50-0.80	0.04 Max	0.15-0.35	100 - 110	95 - 105	90 - 100	13	30
HC 75	0.71 - 0.75	0.50-0.80	0.04 Max	0.15-0.35	105 - 115	100 - 110	95 - 105	12	25
HC 80	0.76 - 0.80	0.50-0.80	0.04 Max	0.15-0.35	110 - 120	105 - 115	100 - 110	12	25
HC 85	0.81 - 0.85	0.50-0.80	0.04 Max	0.15-0.35	115 - 125	110 - 120	105 - 115	12	25

Note: Coil Dimensions (mm): ID -725(Min), OD-1250(Max); Height-1400(Max); Weight: 1.2MT(apprx);

Sizes(mm) - 5.5,6,0,6.5,7,0,8,0; Order Qty per size: 1000MT (Min);

Orders/ 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.

Orders for 10&12mm sizes will be considered only on trial lots of 50 -100T .

2. HOT ROLLED REBARS:

Specifications	Grade	Size (mm)	Remarks
JIS G3112	SD 35	16, 20, 25 & ""	In straight lengths of 12M ± 0.1, Allowable short length 2%
JIS G3112	SD 35	8, 10, 12	In coils of dimensions as per Wire Rod Coils

Note : "" - Sizes(mm) 18, 32 & 28 can also be supplied subject to economic quantity of orders.

Ribs pattern on Rebars will be as per VSP's designs

3. OTHER SECTIONS:

A. EQUAL ANGLES

Size (mm)	Sectional Weight Kg / M
100 X 100X 8/10	12.10/14.90, +5% or -3%
90 X 90X 6/8	8.20/10.80, +5% or -3%
75 X 75 X 6/8	6.80/ 8.90, +5% or -3%
65 X 65 X 6/8	5.80/ 7.70, +5% or -3%

B. Beams

Size (mm)	Thickness of Web(mm)	Sectional Weight Kg / M
180 X 91	5.3 ± 0.7%	18.80 ± 4%
120 X 114	5.0 ± 0.7%	19.90 ± 4%
Flange Thickness : 8.0mm ± 1.0% for both sizes		

C. CHANNELS:

Size(mm)	Sectional Weight 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	9.56 ± 2.5%
75 X 40 X 4.8	7.14 ± 2.5%

D. BILLETS

Size (mm)	Length	Chemistry
125 X 125	10 M ± 0.4	See Note below
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
75 X 75	6 M ± 0.1	

E. 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	

Note: Chemistry(other than Billets) - JIS G3101 SS400 or IS:2062; Bundle Wt:5MT(Max);

Length - 12+/- 0.1m (for 6+/-0.1m ends would be gas cut); Allowable short length upto 2%.

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.

4. PIG IRON

C	Mn	Si	P	S
3.5 - 4.5%	1% Max	1.25% Max	0.12% Max	0.05% Max

BASIC GRADE STEEL MAKING PIG IRON, PIGS ARE OF TWO NOTCHES UPTO 45 KG IN WEIGHT. CHIPS / BROKEN PIECES BELOW 25mm NOT EXCEEDING 5%. DUST, DIRT AND MOISTURE EXCEEDING 0.5% DEDUCTABLE FROM DRAFT SURVEY WEIGHT