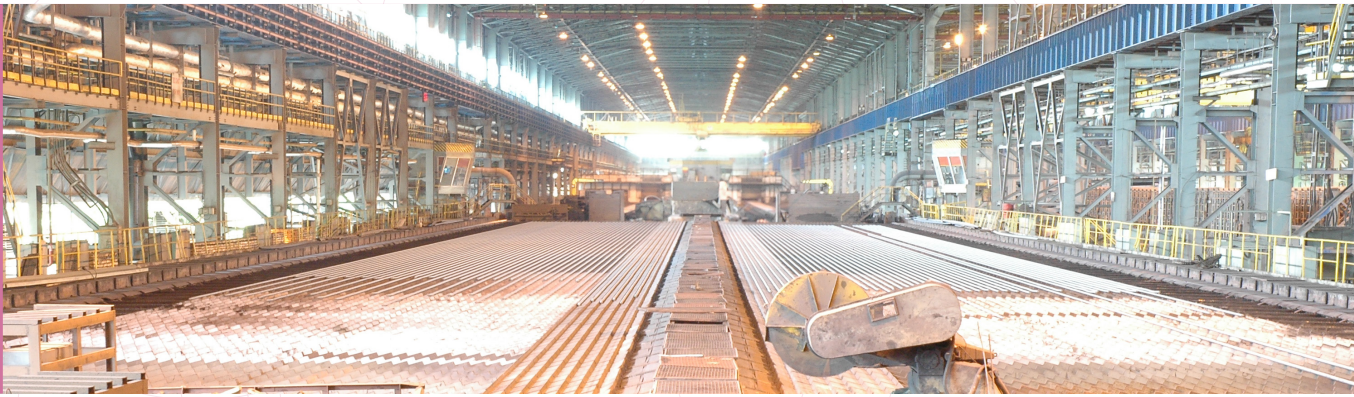


Produced from fully killed steel:

Size(mm)	Nominal Wl.Kg/m	Size(mm)	Nominal Wl.(Kg/m)
16	1.58	40	09.85
* 16.5	1.68	42	10.88
* 17.5	1.89	45	12.50
18	2.00	46.5	13.33
20	2.47	48	14.21
20.64	2.63	50	15.40
22	2.98	53	17.32
25	3.85	56	19.30
28	4.83	60	22.20
32	6.31	63	24.50
33.5	6.92	65	26.00
34	7.13	71	31.09
36	7.99	75	34.70
38	8.91	77	36.57
		80	39.47



Specifications :

Grade	Conforming to
Structural	: IS 2062 E250A - 2006
Forging / Bright Bar Medium Carbon, High Mn Steel	20C 15, 27C 15, SAE 1524S, SAE 1524CR CK-45, EN8, EN8A, EN8D, EN9,SAE 1049, 35C8 SAE 1524, EN15B, 37C15, A 105, 40Cr4 etc
Spring Steel	: 55Si7, 60Si7, 65Si7, SUP9, SUP11 A, SUP10
Case Hardening Steels	: 20MnCr5, 16MnCr5



Upcoming Products

Additional sizes : 85, 90, 95 mm
Up to 45 mm in Coils & Straight form
45 to 95 mm - Straight form

PLAIN ROUNDS



A Navratna Company

Special Features:

- o Bundling and automatic tying / strapping of the rounds ensure minimum damage during handling and transport.
- o Tension free rolling in the Light and Medium Merchant Mill ensures close dimensional tolerances.
- o 38 mm and below are rolled in Light and Medium Merchant Mill and other rounds are rolled in Medium Merchant and Structural Mill.



Packing

: Bare, in strapped bundles weighing 4 to 5 T upto 36 & 8 to 9 T for above 36 approximately.

Invoicing

: As per actual weight.

Quantity & Shipment

: On mutually agreed terms



FORGED ROUNDS



Forged Rounds

Size : 180 mm - 240 mm
Grade : EN8D

Chemical Composition

C : 0.40 – 0.45 PCT
MN : 0.70 – 0.90 PCT
P & S : 0.04 PCT MAX
Si : 0.05 – 0.35 PCT
Al : 0.02 PCT MIN



SPECIAL STEELS

PRODUCT: WIRE ROD COILS

Grade	Desgn.	Chemical Composition					Mechanical Properties		
		C%	MN %	P%(MAX)	S%(MAX)	Si %	UTS %	ELONG %	%RA
VSP	HC50	0.46-0.50	0.50-0.80	0.035	0.035	0.15-0.35	80-90	16	40
VSP	HC55	0.51-0.55	0.50-0.80	0.035	0.035	0.15-0.35	85-95	15	35
VSP	HC60	0.56-0.6	0.50-0.80	0.035	0.035	0.15-0.35	90-100	15	35
VSP	HC65	0.61-0.65	0.50-0.80	0.035	0.035	0.15-0.35	95-105	13	30
VSP	HC70	0.66-0.70	0.50-0.80	0.035	0.035	0.15-0.35	100-110	13	30
VSP	HC75	0.71-0.75	0.50-0.80	0.035	0.035	0.15-0.35	105-115	12	25
VSP	HC80	0.76-0.80	0.50-0.80	0.035	0.035	0.15-0.35	110-120	12	25
VSP	HC85	0.81-0.85	0.50-0.80	0.035	0.035	0.15-0.35	115-125	12	25
VSP	PC 115	0.76-0.80	0.50-0.80	0.035	0.035	0.15-0.35	112 MIN	12	25*
VSP	VIZAGTBQ	0.68-0.72	0.50-0.80	0.035	0.035	0.15-0.35	100-110	13	30

* % Cr.O.15-0.20

Sizes : 5.5/6.0/6.5/7.0/8.0/10.0/12.0/12.7 /14.0 mm

Coil Weight : 1.2 mt approx

Remarks : For 7 - 9mm UTS is 5 Kgf/mm² lower and for 10 - 12 mm UTS is 10 Kgf/mm² lower

PRODUCT: MMSM ROUNDS & BILLETS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(min)	Cr %	B %
VSP	SAE 1541	0.36-0.44	1.35-1.65	0.04	0.035	0.15-0.35	0.02	-	
VSP	SAE 1008	0.10 MAX	0.30-0.50	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1020	0.18-0.23	0.30-0.60	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1022	0.18-0.23	0.70-1.00	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1023S	0.20-0.25	0.80-1.00	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1029S	0.26-0.30	0.70-0.90	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1030	0.28-0.34	0.60-0.90	0.04	0.05	0.15-0.35	0.02	-	
VSP	SAE 1049	0.46-0.50	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
BS 970	EN8	0.35-0.45	0.60-1.00	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN8 D	0.40-0.45	0.70-0.90	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN9	0.50-0.60	0.60-0.80	0.04	0.04	0.05-0.35	0.02	-	
VSP	SAE 1524S	0.16-0.21	1.35-1.65	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1524Cr	0.23-0.28	1.35-1.65	0.04	0.04	0.15-0.35	0.02	0.20-0.30	
VSP	55Si7	0.50-0.60	0.80-1.00	0.04	0.04	1.50-2.00	-	-	
VSP	60Si7	0.55-0.65	0.80-1.00	0.04	0.04	1.50-2.00	-	-	
VSP	65Si7	0.60-0.70	0.80-1.00	0.04	0.04	1.50-2.00	-	-	
ASTM	A 105	0.20-0.25	0.90-1.15	0.035	0.035	0.15-0.35	0.02	-	
JISG 4801	SUP9	0.52-0.60	0.65-0.95	0.035	0.035	0.15-0.35	-	0.65-0.95	
DIN	40CR4	0.35-0.40	0.60-0.90	0.035	0.030	0.15-0.35	0.02	0.90-1.20	
DIN	41CR4	0.36-0.44	0.60-0.90	0.035	0.030	0.15-0.35	0.02	0.90-1.20	
BS 970	EN15B	0.35-0.40	1.10-1.30	0.04	0.035	0.05-0.35	0.02	-	
VSP	SAE 1018	0.15-0.20	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
VSP	27C15	0.22-0.32	1.3-1.7	0.035	0.035	0.15-0.35	0.02	-	
BS 970	EN32B	0.10-0.18	0.60-1.00	0.05	0.05	0.15-0.35	0.02	-	
DIN-17210	20MNCr5	0.17-0.22	1.10-1.40	0.035	0.035	0.15-0.40	0.02	1.0-1.30	
DIN-17210	16MNCr5	0.14-0.19	1.00-1.30	0.035	0.035	0.15-0.40	0.02	0.80-1.1	
JISG 4801	SUP 11A	0.56-0.64	0.70-1.00	0.035	0.035	0.15-0.35	-	0.70-1.00	0.0005-0.003
VSP	35C8	0.35-0.40	0.60-0.90	0.04	0.035	0.15-0.35	0.02	-	
VSP	CK-45	0.42-0.50	0.50-0.80	0.035	0.035	0.15-0.35	0.02	-	
VSP	VIZAG TLT	0.17-0.22	1.20-1.60	0.04	0.04	0.15-0.35	0.015	-	0.03 (Min)*
VSP	37C15	0.32-0.42	1.30-1.70	0.035	0.035	0.15-0.35	-	-	

* Vanadium

Size

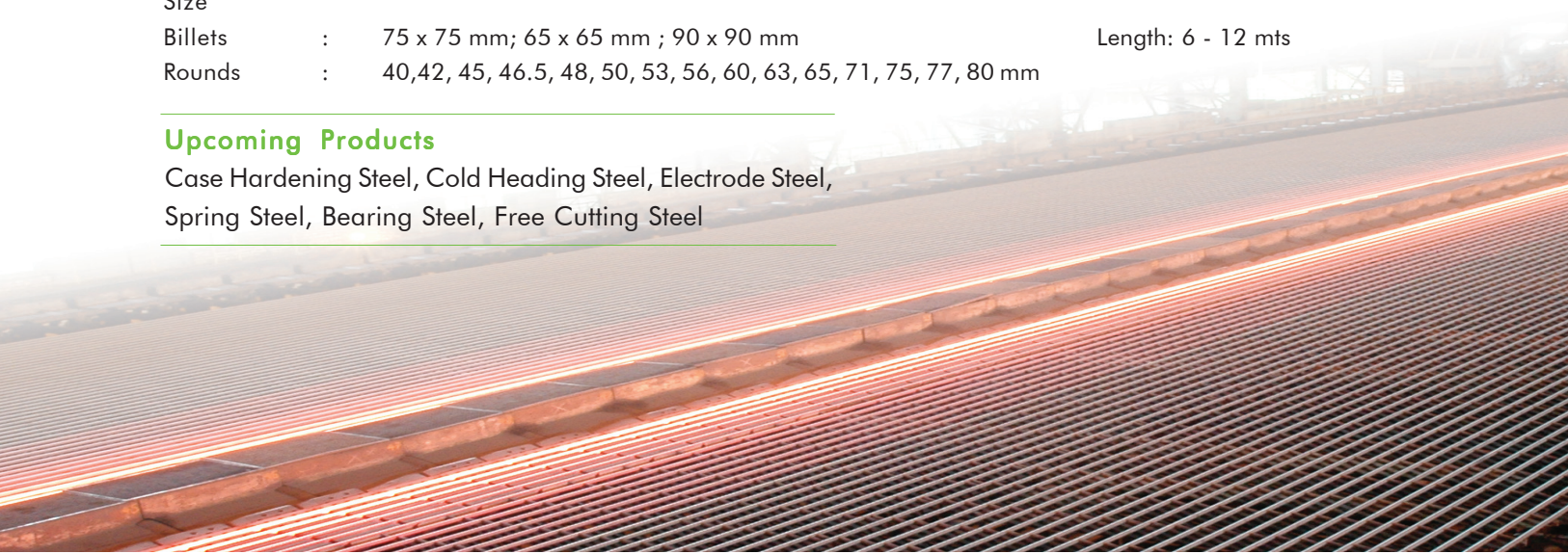
BILLETS : 75 x 75 mm; 65 x 65 mm ; 90 x 90 mm

Length: 6 - 12 mts

ROUNDS : 40,42, 45, 46.5, 48, 50, 53, 56, 60, 63, 65, 71, 75, 77, 80 mm

Upcoming Products

Case Hardening Steel, Cold Heading Steel, Electrode Steel, Spring Steel, Bearing Steel, Free Cutting Steel



PRODUCT: WIRE ROD COILS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(min)	Cr %	B %
ASTMA510	SAE 1008	0.10MAX	0.30-0.50	0.04	0.04	0.15-0.35	0.02	-	
ASTMA510	SAE 1010	0.08-0.13	0.30-0.60	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1010W	0.08-0.12	0.75-0.90	0.04	0.04	0.30 MAX	0.02		
ASTMA510	SAE 1012	0.10-0.15	0.30-0.60	0.04	0.04	0.15-0.35	0.02	-	
ASTMA510	SAE 1015	0.13-0.18	0.30-0.60	0.04	0.04	0.15-0.35	0.02	-	
ASTMA510	SAE 1018	0.15-0.20	0.60-0.90	0.04	0.04	0.15-0.30	0.02	-	
IS 2879	EW-NR	0.10 MAX	0.38-0.62	0.025	0.025	0.03 MAX	0.012 MAX		
VSP	EQ-NR	0.10 MAX	0.38-0.62	0.03	0.03	0.03 MAX	-	-	
VSP	CAQ	0.07 MAX	0.5 MAX	0.035	0.035	0.05 MAX	-		
BS 970	EN8D	0.40-0.45	0.70-0.90	0.04	0.04	0.05-0.35	-		
BS 970	EN8	0.35-0.45	0.60-1.0	0.04	0.04	0.05-0.35	-	-	-
BS 970	EN32B	0.10-0.18	0.60-1.00	0.05	0.05	0.15-0.35	0.02	-	-



PRODUCT: LMMM ROUNDS & BILLETS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(MIN)	Cr%	B %
VSP	SAE 1010	0.08-0.13	0.30-0.60	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1012S	0.10-0.15	0.50-0.80	0.035	0.035	0.20 max	0.02		
VSP	SAE 1020	0.18-0.23	0.30-0.60	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1023S	0.20-0.25	0.80-1.00	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1029S	0.26-0.30	0.70-0.90	0.04	0.04	0.15-0.35	0.02		
VSP	SAE 1030	0.28-0.34	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
BS 970	EN8	0.35-0.45	0.60-1.00	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN8D	0.40-0.45	0.70-0.90	0.04	0.04	0.05-0.35	0.02	-	
BS 970	EN9	0.50-0.60	0.50-0.80	0.04	0.04	0.05-0.35	0.02	-	
VSP	SAE 1049	0.46-0.50	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1541	0.36-0.44	1.35-1.65	0.04	0.035	0.15-0.35	0.02	-	
VSP	SAE 1524S	0.16-0.21	1.35-1.65	0.04	0.04	0.15-0.35	0.02	-	
VSP	SAE 1524Cr	0.23-0.28	1.35-1.65	0.04	0.04	0.15-0.35	0.02	0.20-0.30	
VSP	37C15	0.32-0.42	1.30-1.70	0.035	0.035	0.15-0.35	0.02		

SPECIAL STEELS



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PRODUCT: LMMM ROUNDS & BILLETS

Grade	Desgn.	Chemical Composition							
		C%	MN %	P%(MAX)	S%(MAX)	Si %	Al %(MIN)	Cr%	B %
BS970	EN32B	0.10-0.18	0.60-1.00	0.05	0.05	0.15-0.35	0.02	-	
VSP	27C15	0.22-0.32	1.30-1.70	0.035	0.035	0.15-0.35	0.02		
VSP	SAE1018	0.15-0.20	0.60-0.90	0.04	0.04	0.15-0.35	0.02	-	
ASTM	A105	0.20-0.25	0.85-1.15	0.035	0.035	0.15-0.35	0.02	-	
DIN-17210	20MnCr5	0.17-0.22	1.1 0-1.40	0.035	0.035	0.15-0.35	0.02	1.00-1.30	
DIN	40CR4	0.35-0.40	0.60-0.90	0.035	0.03	0.15-0.35	0.02	0.90-1.20	
DIN	41CR4	0.36-0.44	0.60-0.90	0.035	0.03	0.15-0.35	0.02	1.00-1.20	
VSP	55Si7	0.50-0.60	0.80-1.00	0.04	0.04	1.50-2.00	-		
VSP	60Si7	0.55-0.65	0.80-1.00	0.04	0.04	1.50-2.00	-		
VSP	65Si7	0.60-0.70	0.80-1.00	0.04	0.04	1.50-2.00	-		
BS 970	EN43D	0.60-0.65	0.40-0.60	0.04	0.015-0.035	0.15-0.35	-		
VSP	35C8	0.35-0.40	0.60-0.90	0.04	0.04	0.15-0.35	0.02		
VSP	CK-45	0.42-0.50	0.50-0.80	0.035	0.035	0.15-0.35	0.02		

Sizes

Billets : 125 x 125 mm

Rounds : 16, 18, 20, 22, 25, 28, 32, 33.5, 34, 36, 38 mm

length: 8 - 10.4 mts

length: 6 - 12 mts