

SPECIFICATION OF IRON AND STEEL PRODUCTS

SPONGE IRON LUMPS (IRON ORE BASED)

PHYSICAL PROPERTIES		CHEMICAL PROPERTIES	
PRODUCT SIZE (MM)	0-20 MM (0-1 MM, 10% MAX.)	Fe (TOTAL):	90% ±1%
		Fe (METALLIC):	79% ±1%
		METALLIZATION:	88% ±1%
		CARBON:	0.15% MAX.
		SULPHUR:	0.045% MAX.
		PHOSPHOROUS:	0.060% MAX.
		NON MAGNETIC:	LESS THAN 1%

SPONGE IRON (IRON ORE PELLET BASED)

PHYSICAL PROPERTIES		CHEMICAL PROPERTIES	
PRODUCT SIZE (MM)	3-20 MM	Fe (TOTAL):	88% ±2%
		Fe (METALLIC):	79% ±2%
		METALLISATION	88% ±1%
		CARBON:	0.15% MAX.
		SULPHUR:	0.05% MAX.
		PHOSPHOROUS:	0.065% MAX.
		NOM-METALIC	LESS THAN 1%

M.S. BILLETS (GRADE - A)

PHYSICAL PROPERTIES		CHEMICAL PROPERTIES	
PRODUCT SIZE (MM)	100 X 100 X 6000	CARBON:	0.2-0.25 %
		MANGANESE:	0.6% MIN.
		SULPHUR:	0.05% MAX.
		PHOSPHOROUS:	0.09% MAX.
		SILICON:	0.15-0.30%

M.S. BILLETS (GRADE - B)

PHYSICAL PROPERTIES		CHEMICAL PROPERTIES	
PRODUCT SIZE (MM)	100 X 100 X 6000	CARBON:	0.15-0.25 %
		MANGANESE:	0.50% MIN.
		SULPHUR:	0.05% MAX.
		PHOSPHOROUS:	0.09% MAX.
		SILICON:	0.15-0.30%

STEEL PRODUCTS

PRODUCT NAME	Size in mm
Equal Angles (ISA)	25x25x4 TO 200x200x20
Beams (ISMB)	100x55 TO 600x210
CHANNELS (ISMC)	100x50 TO 400x100
<u>TMT BARS AS PER BIS Fe 415,500,500D,550&600</u>	
TMT BARS	Size 8,10,12,16,20,25&32mm
<u>PRIME HOT ROLLED WIRE RODS GRADE SAE1008</u>	
PRIME HOT ROLLED WIRE RODS (IN COILS)	SIZE: 5.5 TO 22.0mm DIA