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Physical Properties SANS 920

Smooth Round Bar

Diameter in mm	Kgs/M	Rolling Tolerance %		Bend Test Mandrel Size 2D
		On Individual Bars	On Batch Mass	
R10	0.617	+/- 6	+/- 3.5	20 mm
R12	0.888	+/-4	+/- 2.5	24 mm
R16	1.580	+/-4	+/- 2.5	36 mm
R20	2.470	+/-4	+/- 2.5	40 mm
R25	3.850	+/-4	+/- 2.5	50 mm
R30	5.550	+/-4	+/- 2.5	60 mm

Mechanical Properties

Particulars	SANS 920	S355 JR
Yield Stress (MPA) MINIMUM	250	355
Ultimate Tensile Strength (MPA)	>15% of YS	490-630
Elongation %	22	22

Chemical Properties

Chemical Element	SANS 920	S355 JR
Carbon (C) %	< 0.300	< 0.270
Silicon (Si) %	< 0.350	< 0.600
Manganese (Mn) %	< 1.000	< 1.70
Phosphorus (P)%	< 0.060	< 0.045
Sulphur (S) %	< 0.060	< 0.045
Chrome (Cr) %	< 0.350	< 0.350
Nickel (Ni) %	< 0.100	< 0.100
Copper (Cu) %	< 0.200	< 0.600
CEV	< 0.51	< 0.45

*CE % (m/m) = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15



Length: Standard lengths produced are 6, 12 and 13 Mtrs. Other lengths can be produced on request in increments of 1M. There is length tolerance of -0 and +50mm.

Certification: Fortune Steels is duly approved to put the SABS mark on all reinforcing steel bars. All material sold would be supplied with relevant Chemical and Mechanical test certificates.

Packing: All reinforcing steel 12 and 13mts length size is packed in +/- 2MT Bundles and 6mts length in +/- 1.5MT Bundles. Bundles come with identification tag providing information as regards the Size, Length, Grade and Batch number of the Bundle.