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Physical Properties SANS 920

Diameter in mm	Kgs/M	Reinforcing Bar Coil	
		On Batch Mass	Bend Test Mandrel Size 3D
Y6	0.222	+/- 3.5	18mm
Y8	0.395	+/- 3.5	24mm
Y10	0.617	+/- 3.5	30mm
Y12	0.888	+/- 2.5	36mm

Mechanical Properties (QC PR 03)

Particulars	SANS 920
Yield Stress (MPA) MINIMUM	450
Ultimate Tensile Strength (MPA)	>15% of YS
Elongation %	14

Chemical Properties

Chemical Element	SANS 920
Carbon (C) %	< 0.500
Silicon (Si) %	< 0.350
Manganese (Mn) %	< 1.000
Phosphorus (P)%	< 0.050
Sulphur (S) %	< 0.060
Chrome (Cr) %	< 0.300
Nickel (Ni) %	< 0.100
Copper (Cu) %	< 0.200
CEV	< 0.51

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

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

Packing: All reinforcing coil consist of 2 smaller coild of +/- 700 KGs each . Coils come with identification tag providing information as regards the Size, Grade and Batch number of the Bundle.



Reinforcing Bar Coil

Physical Properties BS4449 B500B

Diameter in mm (d)	Kgs/M	Bend Test Mandrel Size (Maximum)	
		On Batch Mass	
Y6	0.222	+/- 3.5	4d
Y8	0.395	+/- 3.5	4d
Y10	0.617	+/- 2.5	4d
Y12	0.888	+/- 2.5	4d

Mechanical Properties

Particulars	BS4449 B500B
Yield Stress (MPA) Min	485 MPA
Ultimate Tensile Strength (MPA)/YIELD STRESS MINIMUM	1.08
AGT Min	5%

Chemical Properties (Product Analysis)

Chemical Element	BS4449 B 500 B
Carbon (C) %	< 0.24
Phosphorus (P)%	< 0.055
Sulphur (S) %	< 0.055
Copper (Cu) %	< 0.850
CEV	< 0.52
*CE % (m/m) = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15	

Fatigue Testing: Fatigue testing is being carried out by an independent Lab as is required by the BS4449

Packing: All reinforcing coil consist of 2 smaller coils of +/- 700 KGs each . Coils come with identification tag providing information as regards the Size, Grade and Batch number of the Bundle.