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Physical Properties SANS 920

Reinforcing Coils

Diameter in mm	Kgs/M	Rolling Tolerance %		Bend Test Mandrel Size 3D
		On Individual Bars	On Batch Mass	
Y6	0.222	+/-8	+6/-4	18mm
Y8	0.395	+/- 6	+/- 3.5	24mm
Y10	0.617	+/- 6	+/- 3.5	30mm
Y12	0.888	+/-4	+/- 2.5	36mm

Mechanical Properties

Particulars	SANS 920
Yield Stress (MPA) Min	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) %	< 0.040
Copper (Cu) %	< 0.200
CEV	< 0.51

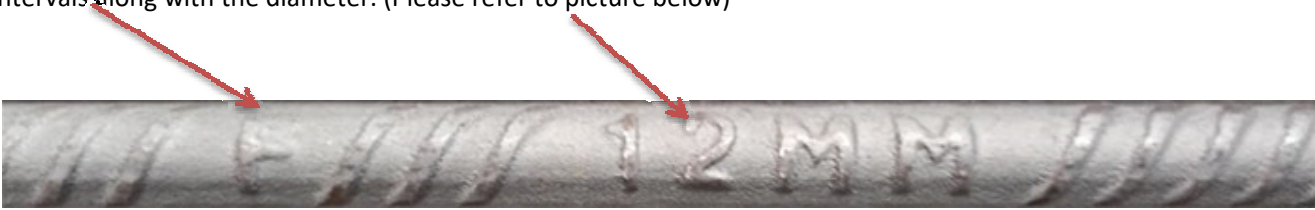
$$*CE \%(m/m) = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15$$

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




Certification: Force Steels 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 steel is produced in 1MT - 1.2MT Coils consisting of 2 coils bundled together . Coils come with identification tag providing information as regards the Size, Length, Grade and Batch number of the Bundle.

Branding: To easily identify the bars manufactured by Force Steels, all bar coils are marked with letter "F" at regular intervals along with the diameter. (Please refer to picture below)



Labeling: All Coils are securely strapped with steel straps and wire straps along with water proof printed tags showing the below information. It is recommended that such tags are safely kept once the bundles are opened for Tracability purposes.

	 FORCE STEELS <i>Manufacturing excellence</i> <small>A Division of Shaurya Steel (Pty) Ltd</small>	
Unique Bundle Number ←	COIL NO: T22-23/193150	
	PRODUCT: COIL Y BAR 16 MM	→ Bar Diameter
	SPECIFICATION: SANS920:450MPA	→ Standard Specification
Mass of Bundle ←	MASS: 2054 KGS	
	LOT NO: HT/30914	→ Unique Cast Number
Date & Time of Production ←	12/May/22 7:36:32 AM	
		
		→ SABS Logo
	MADE IN SOUTH AFRICA	