



Abyssinia Group Of Industries

Wire Rod

Abyssinia Group of Industries manufactures high quality wire rod conforming to international standards ASTM A510M.



AGI manufactures and supplies wire rods with nominal diameters from 5.50 mm to 16.0 mm. The rod is rolled from billets into control-cooled coils, yielding a suitable microstructure for subsequent down stream processes. Typical results show the surface defects is less than 1% of the diameter.

Wire rod has a number of end uses and applications, including welding mesh, fabric mesh, fencing products, shelving, welding rods, wire hangers and nails. In addition, wire drawn from wire rod can be hot dip galvanized, plated and painted as per customer requirements.

AGI can produce wire rods to meet customers' needs with full technical service and support to match critical customer requirements with established process control, Quality Assurance Plan and our commitment to continual customer satisfaction.

Technical parameters of the wire rod

Diameter of Wire Rod (mm)	Mass (kg)	Height (mm)	Outer Diameter (mm)	Inner Diameter (mm)
5.5 – 16.0	1000 – 1200	Max 1000	Max 1250	Min 750

Dimensional Tolerance



Sizes (mm)	Tolerance (mm)	Maximum Ovality (mm)
5.2 – 8.5	±0.20	0.3
9.0 – 14.0	±0.25	0.4
14.5 – 22.0	±0.30	0.5



Packaging

In order to avoid various damages that can occur during the shipping and handling process, individual coils are strapped with four straps evenly spaced around the periphery. To provide increased visibility and positive product identification, a resin label with white background is added after the pickling process.

Chemical and Physical Composition

Grade	Size	Chemical Composition (%)				Physical Properties	
		C (Max.)	Mn	S (Max.)	P (Max.)	UTS N/mm ² (Max)	%EL (Min.)
1006	5.20 – 16.0	0.08	0.30 – 0.50	0.03	0.04	410	30
1008	5.20 – 16.0	0.10	0.30 – 0.50	0.03	0.04	420	30
1018	5.20 – 16.0	0.15 – 0.20	0.60 – 0.90	0.03	0.04	500	30

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