

## Material: ISO 4954 C20C

### Standard Specification for Carbon Steel Wire Rods for Cold Heading and Cold Forging

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** ISO 4954 C20C Carbon Steel Wire Rods for Cold Heading and Cold Forging

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Wire Rod and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.220	As Raw or Normalizing or Annealing or Hardening and Tempering	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.700 - 0.900		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Aluminium	Al %	0.020 - 0.060		
Chromium	Cr %	0.300 max.		
Copper	Cu %	0.300 max.		
Molybdenum	Mo %	0.100 max.		
Nickel	Ni %	0.300 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa 650 max. Yield Strength in Mpa - Elongation in % - Reduction of Area in % 53 min. Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWRCH 22A	JIS	Japan	Wire Rod and Forging
SWCH 22A	JIS	Japan	Wire Rod and Forging
SWRCH22A	MS	Malaysia	Wire Rod and Forging
SWRCH22A	KS	Korea	Wire Rod and Forging
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