

Material: JIS G 3539 SWCH 22A

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

Group: Ferrous Mild Steel Alloys

Sub Group: JIS G 3539 SWCH 22A 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 - 0.230	As Raw or Normalizing or Annealing or Hardening and Tempering	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.700 - 1.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Aluminium	Al %	0.020 min.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 440 min. Yield Strength in Mpa - Elongation in % - Reduction of Area in % 45 min. Hardness in HRC 98 max. 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
SWRCH22A	MS	Malaysia	Wire Rod and Forging
C20C	ISO	International	Wire Rod and Forging
SWRCH22A	KS	Korea	Wire Rod and Forging
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