

Material: KS D 3592 SWRCH22A

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

Group: Ferrous Mild Steel Alloys

Sub Group: KS D 3592 SWRCH22A 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.		
Chromium	Cr %	0.200 max.		
Copper	Cu %	0.300 max.		
Molybdenum	Mo %	0.200 max.		
Nickel	Ni %	0.200 max.		
Iron	Fe %	Balance	Mechanical Properties 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
C20C	ISO	International	Wire Rod and Forging
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Customer Care: +91-99090 45075 Email: info@icastllp.com