

## Material: KS D 3592 SWRCH16A

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** KS D 3592 SWRCH16A 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 %	0.130 - 0.180	As Raw or Normalizing or Annealing or Hardening and Tempering	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.600 - 0.900		
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.		
Nickel	Ni %	0.200 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 550 max. Yield Strength in Mpa - Elongation in % - Reduction of Area in % 48 min. Hardness in BHN - Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWRCH 16A	JIS	Japan	Wire Rod and Forging
SWCH 16A	JIS	Japan	Wire Rod and Forging
SWRCH16A	MS	Malaysia	Wire Rod and Forging
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