

Material: KS D 3592 SWRCH16K

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

Group: Ferrous Mild Steel Alloys

Sub Group: KS D 3592 SWRCH16K 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 - 0.350		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.200 max.		
Copper	Cu %	0.300 max.		
Nickel	Ni %	0.200 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	410 min.
-	-	-	Yield Strength in Mpa	290 min.
-	-	-	Elongation in %	11 min.
-	-	-	Reduction of Area in %	48 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	25 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SWRCH 16K	JIS	Japan	Wire Rod and Forging
SWCH 16K	JIS	Japan	Wire Rod and Forging
SWRCH16K	MS	Malaysia	Wire Rod and Forging
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