

## Material: MS 1795 SWRCH12A

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** MS 1795 SWRCH12A 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 %	0.100 - 0.150	As Raw or Normalizing or Annealing or Hardening and Tempering	
Silicon	Si %	0.100 max.		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.035 max.		
Aluminium	Al %	0.020 min.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      505 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 12A	JIS	Japan	Wire Rod and Forging
SWCH 12A	JIS	Japan	Wire Rod and Forging
SWRCH12A	KS	Korea	Wire Rod and Forging
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