



Material - ISO 4954 C20C

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

Group - Ferrous Mild Steel Alloys

Sub Group - ISO 4954 C20C 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 - 0.220		
Silicon	Si %	0.100 max.	As Raw or Normalizing or Annealing or Hardening and Tempering	
Manganese	Mn %	0.700 - 0.900		aaling or Hardoning and
Phosphorus	P %	0.025 max.		· ·
Sulphur	S %	0.025 max.		
Aluminium	Al %	0.020 - 0.060		
Chromium	Cr %	0.300 max.		
Copper	Cu %	0.300 max.		-
Molybdenum	Mo %	0.100 max.	Mechanical Properties	
Nickel	Ni %	0.300 max.	Tensile Strength in Mpa	650 max.
Iron	Fe %	Balance	Yield Strength in Mpa	-
-	-	-	Elongation in %	-
-	-	-	Reduction of Area in %	53 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

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	
SWRCH22A	KS	Korea	Wire Rod and Forging	
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Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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