

Material: EN 38 CrS 2

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 38 CrS 2 Mild Steel Alloys Bar and Rod

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Bar and Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.350 - 0.420	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 - 0.040		
Chromium	Cr %	0.400 - 0.600		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 650 - 950 Yield Strength in Mpa 350 min. Elongation in % 14 min. Reduction of Area in % 35 min. Hardness in BHN 255 max. Impact in Joule 35 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
38Cr2	EN	European Union	Bar and Rod
1.7003	EN	European Union	Bar and Rod
1.7023	ONORM	Australia	Bar and Rod
38 CrS 2	ONORM	Australia	Bar and Rod
1.7023	EN	European Union	Bar and Rod
38 CrS 2	SFS	Finland	Bar and Rod
1.7023	SFS	Finland	Bar and Rod

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