

Material: EN 10083-3 38Cr2

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10083-3 38Cr2 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 %	0.025 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.400 - 0.600		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 600 - 750 Yield Strength in Mpa 350 min. Elongation in % 17 - 45 Reduction of Area in % - Hardness in BHN As Per HT Impact in Joule 35 J @ RT	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.7003	EN	European Union	Bar and Rod
1.7023	ONORM	Australia	Bar and Rod
38 CrS 2	ONORM	Australia	Bar and Rod
38 CrS 2	EN	European Union	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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