

Material: MSZ Cr 1 Z

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: MSZ Cr 1 Z 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 %	0.300 - 0.370	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.600 - 0.900		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.900 - 1.200		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 800 - 950 Yield Strength in Mpa 590 min. Elongation in % 14 min. Reduction of Area in % 40 min. Hardness in BHN - Impact in Joule 40 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
34Cr4	EN	European Union	Bar and Rod
1.7033	EN	European Union	Bar and Rod
34 Cr 4 E	ISO	International	Bar and Rod
34 Cr 4 E	JIS	Japan	Bar and Rod
1.7037	BDS	Bulgaria	Bar and Rod
34CrS4	BDS	Bulgaria	Bar and Rod
1.7037	NBN	Belgium	Bar and Rod

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