



## Material - NBN 1.7189

### Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - NBN 1.7189 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 %	0.360 - 0.420	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	1.400 - 1.700		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.300 - 0.600		
Boron	B %	0.0008 - 0.0050		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   1000 - 1350 Yield Strength in Mpa   800 min. Elongation in %   12 min. Reduction of Area in %   50 min. Hardness in BHN   255 max. Impact in Joule   40 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
39MnCrB6-2	EN	European Union	Bar and Rod
1.7189	EN	European Union	Bar and Rod
39MnCrB6-2	ISO	International	Bar and Rod
1.7189	AFNOR NF	France	Bar and Rod
39MnCrB6-2	AFNOR NF	France	Bar and Rod
1.7189	BS	British	Bar and Rod
39MnCrB6-2	BS	British	Bar and Rod

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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