



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - CSN 39 NiCrMo 3

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - CSN 39 NiCrMo 3 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 - 0.430	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 %	0.600 - 1.000		
Molybdenum	Mo %	0.150 - 0.250		
Nickel	Ni %	0.700 - 1.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 740 - 1180 Yield Strength in Mpa 540 min. Elongation in % 8 min. Reduction of Area in % 40 min. Hardness in BHN 295 max. 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
39NiCrMo3	EN	European Union	Bar and Rod
1.651	EN	European Union	Bar and Rod
NCMo 4	MSZ	Hungary	Bar, Wire and Rod
1.651	BDS	Bulgaria	Bar and Rod
1.651	DIN	Germany	Bar and Rod
39 NiCrMo 3	DIN	Germany	Bar and Rod
1.651	SFS	Finland	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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