



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - UNE G35CrNiMo6-6

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

Group - Ferrous Mild Steel Alloys

Sub Group - UNE G35CrNiMo6-6 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 %	0.320 - 0.380	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.600 - 1.000		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	1.400 - 1.700		
Molybdenum	Mo %	0.150 - 0.350		
Nickel	Ni %	1.400 - 1.700		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   750 - 1050 Yield Strength in Mpa   500 min. Elongation in %   10 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   30 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
34CrNiMo6	EN	European Union	Bar and Rod
1.6582	EN	European Union	Bar and Rod
P 1000 - 34CrNiMo6	AFNOR NF	France	Bar and Rod
P 880 - 34CrNiMo6	AFNOR NF	France	Bar and Rod
1.6579	UNE	Spain	Bar and Rod
1.6579	SS	Sweden	Bar and Rod
G35CrNiMo6-6	SS	Sweden	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)**

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.

**ONE STOP SOLUTION FOR METAL PARTS**