



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

## Material - ONORM 38 CrS 2

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

Group - Ferrous Mild Steel Alloys

Sub Group - ONORM 38 CrS 2 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 %	0.035 max.		
Sulphur	S %	0.020 - 0.040		
Chromium	Cr %	0.400 - 0.600		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      650 - 950 Yield Strength in Mpa      350 min. Elongation in %      14 min. Reduction of Area in %      35 min. Hardness in BHN      255 max. Impact in Joule      35 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
38Cr2	EN	European Union	Bar and Rod
1.7003	EN	European Union	Bar and Rod
1.7023	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

**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.

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