



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

## Material - IS 11286 Grade 6

**Standard Specification for Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - IS 11286 Grade 6 Castings, Iron-Chromium, Iron-Chromium-Nickel Corrosion Resistant, for General Application**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.900 - 1.400	As-Cast or Annealing or Age Hardning	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.000 max.		
Chromium	Cr %	27.000 - 31.000		
Molybdenum	Mo %	1.500 max.		
Phosphorus	P %	0.040 max.		
Iron	Fe %	3.000 max.		
Sulphur	S %	0.040 max.		
Nickel	Ni %	3.000 max.		
Tungsten	W %	3.500 - 5.500		
Cobalt	Co %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa   575 min. Yield Strength in Mpa   - Elongation in %   3 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
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**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**