



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

## Material - IS 4522 Grade 14

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

Group - Non-Ferrous Nickel Alloys

Sub Group - IS 4522 Grade 14 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 %	0.350 - 0.750	As-Cast or Annealing or Age Hardning	
Silicon	Si %	2.500 max.		
Manganese	Mn %	2.000 max.		
Chromium	Cr %	15.000 - 19.000		
Molybdenum	Mo %	0.500 max.		
Sulphur	S %	0.050 max.		
Phosphorus	P %	0.050 max.		
Nickel	Ni %	64.000 - 68.000		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	410 - 210
-	-	-	Yield Strength in Mpa	220 - 250
-	-	-	Elongation in %	4 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HRB	130 - 210
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
13505 Grade 15	IS	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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**