



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

## Material - IS 4522 Grade 8

**Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - IS 4522 Grade 8 Heat Resistant Alloy Steel and Nickel Base Castings**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.350	As - Cast or Annealing	
Silicon	Si %	2.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	19.000 - 21.000		
Nickel	Ni %	13.000 - 15.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      450 min. Yield Strength in Mpa      - Elongation in %      7 min. Reduction of Area in %      - Hardness in HB      150 - 220 Impact in Joule      -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4832	DIN	Germany	Casting
GX25CrNiSi 20-14	DIN	Germany	Casting
20Ch20N14S2L	GOST	Russia	Casting
LH 19 N 14 G	PN	Poland	-
-	-	-	-
-	-	-	-
-	-	-	-

**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**