GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity 18-13 MS

Standard Specification for Stainless and Heat Resisting Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - Gravity 18-13 MS Stainless and Heat Resisting Steels

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

Grade Belongs to the Industry - Steel, Bars, Rods, Casting and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	17.000 - 20.000
Molybdenum	Mo %	2.000 - 3.000
Nickel	Ni %	11.000 - 14.000
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or As-Cast or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	400 min.
Yield Strength in Mpa	200 min.
Elongation in %	25 min.
Reduction of Area in %	40 min.
Hardness in HB	130 - 230
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J31670	UNS	USA	Steel and Casting
1554 318 S 17	B.S.	United Kingdom	Steel and Wire
A 778 Grade TP 317L	ASTM	USA	Steel
SEW 410 1.4404	DIN	Germany	Steel and Casting
EN 10088-3 1.4404	DIN	Germany	Steel
10222-5 1.4429	EN	European Union	Steel and Forging
14455	NS	Norway	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.