



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

## Material - UNS J93401

**Standard Specification for Castings, Austenitic, for Pressure-Containing Parts**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - UNS Castings, Austenitic, for Pressure-Containing Parts**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Carbon	C %	1.100 max.	Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	22.000 - 26.000		
Nickel	Ni %	12.000 - 15.000		
Iron	Fe %	Balance		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	485 min.
			Yield Strength in Mpa	205 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-351 Grade CH10	ASME	USA	Casting
1.4950	EN	European Union	Flat Products Made of Steel for Pressure Purpose
309S	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
SUS 309 STB	JIS	Japan	Superheater, Tubes of Boiler and Heat Exchangers
X 6 CrNi 23-14	UNI	Italy	Plate, Sheets, Strip and Coil
A743 CH10	ASTM	USA	Casting
A351 CH10	ASTM	USA	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**