



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-351 Grade CH20

Standard Specification for Austenitic and Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containing Parts

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-351 Grade CH20 Austenitic and Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other 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 %	0.040 - 0.200	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		
Molybdenum	Mo %	0.500 Max.		
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
1.4833	EN	European Union	Hot or Cold Rolled, Sheet, Plate, Strip, Bar and Rods
SUH 309	JIS	Japan	Bar, Sheet, Strip and Coil
X 16 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil
309	SAE	USA	Bar, Wire, Shapes and Forging
X 15 CrNi 24-13	AFNOR NF	France	Rolled Tubes for Pressure Service
A743 CH20	ASTM	USA	Casting
A351 CH20	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

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