



Material - BS 310 C 45

Standard Specification for Austenitic Steel Castings for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 310 C 45 Austenitic Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.500 max.	Solution Annealing	
Silicon	Si %	3.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	22.000 - 27.000		
Nickel	Ni %	17.000 - 22.000		
Molybdenum	Mo %	1.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	425 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	10 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 HK 40	ASME	USA	Casting
A-608 Grade HK 40	ASME	USA	Casting
40 CrNiSi 25-20	MSZ	Hungary	Casting
1.4848	DIN	Germany	Casting
SCH 22	JIS	Japan	Casting
A-567 Grade HK 40	ASTM	USA	Casting
A351 HT30	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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