



Material - DIN 1.4848

Standard Specification for Heat-Resisting Steel Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 1.4848 Heat-Resisting Steel Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment			
Carbon	C %	0.300 - 0.500	Solution Annealing			
Silicon	Si %	1.000 -2.500				
Manganese	Mn %	2.000 max.				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.030 max.				
Chromium	Cr %	24.000 - 27.000				
Nickel	Ni %	19.000 - 22.000				
Molybdenum	Mo %	0.500 max.				
Cobalt	Co %	1.000 max.				
Niobium	Nb %	0.600 max.				
Vanadium	V %	0.120 max.				
Tungsten	W %	0.600 max.				
Iron	Fe %	Balance	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	440 - 640
-	-	-			Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	8 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
310 C 45	BS	British	Casting
40 CrNiSi 25-20	MSZ	Hungary	Casting
A-608 Grade HK 40	ASME	USA	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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