

Material: ASME SA-351 Grade HK 40

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

Group: Ferrous Stainless Steel Alloys

Sub Group: ASME SA-351 Grade HK 40 Austenitic-Ferritic Steel Castings for Valves, Flanges, Fittings, and Other Pressure-Containings Parts

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.350 - 0.450
Silicon	Si %	1.750 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	23.000 - 27.000
Nickel	Ni %	19.000 - 22.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

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
A-608 Grade HK 40	ASME	USA	Casting
310 C 45	BS	British	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

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India