

Material: ISO 1.4552

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: ISO 1.4552 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	9.000 - 12.000		
Copper	Cu %	0.500 max.		
Niobium	Nb %	1.000 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 440 min. Yield Strength in Mpa 175 min. Elongation in % 25 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 40 J @ RT	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX5CrNiNb19-11	BS	British	Plate, Tubes and Forging
GX5CrNiNb19-11	ISO	International	Casting
A 743 Grade CF-8C	ASTM	USA	Casting
A 743 J92710	ASTM	USA	Casting
A 744 Grade CF-8C	ASTM	USA	Casting
SCS 21	JIS	Japan	Casting
GX5CrNiNb19-11	AFNOR NF	France	Casting

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