

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.		
Silicon	Si %	1.500 max.	Normalizing or Quenching or Solution Annealing	
Manganese	Mn %	1.500 max.		
Phosphorus	Р%	0.040 max.		Solution Annealing
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.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	440 min.
-	-	-	Yield Strength in Mpa	175 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	40 J @ RT

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	

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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