

Material: EN 1.4552

Standard Specification for Corrosion Resistant Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 10283 Corrosion Resistant 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 %	0.070 max.	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 %	$\leq 8 \times \%C - 1.000$		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 440 - 640 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
GX 5 CrNiNb 19-11	DIN	Germany	Casting
347 C 17	BS	British	Casting
SCS 21	JIS	Japan	Casting
SA-351 Grade CF8C	ASME	USA	Casting
A743 CF8C	ASTM	USA	Casting
A744 CF8C	ASTM	USA	Casting
A351 CH8C	ASTM	USA	Casting

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