

Material: EN 1.4409

Standard Specification for Austenitic and Austenitic-Ferritic Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4409 Austenitic and Austenitic-Ferritic 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 %	0.030 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	9.000 - 12.000		
Molybdenum	Mo %	2.000 - 2.500		
Nitrogen	N %	0.200 max		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	440 - 640
			Yield Strength in Mpa	195 min.
			Elongation in %	30 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	80 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4409	DIN	Germany	Casting
316	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
316 S17	BS	British	Wire
SUS 316	JIS	Japan	Bar
03CH17N14M3	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
A743 CF8M	ASTM	USA	Casting
A351 CF8M	ASTM	USA	Casting

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