

Material: DIN 1.4059

Standard Specification for Corrosion Resistant Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4059 Corrosion Resistant Steel Castings

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.200 - 0.270
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	16.000 - 18.000
Nickel	Ni %	1.000 - 2.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing

Mechanical Properties	
Tensile Strength in Mpa	780 - 980
Yield Strength in Mpa	590 min.
Elongation in %	4 min.
Reduction of Area in %	-
Hardness in BHN	200 - 300
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J91803	UNS	USA	Casting
AoX 20 CrNi 17-2	MSZ	Hungary	Casting
ANC 2	BS	British	Casting
Z 20 Cn 17.2M	AFNOR NF	France	Casting
G X 22 CrNi 17	DIN	Germany	Casting
A743 CB30	ASTM	USA	Casting
3444 Grade 12	IS	India	Casting

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