

# Material: BS ANC 2

## Standard Specification for Martensitic Stainless Steel; Investment Castings

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS ANC 2 Martensitic Stainless Steel; Investment Castings

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.120 - 0.250
Silicon	Si %	0.200 - 1.000
Manganese	Mn %	0.200 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	15.500 - 20.000
Nickel	Ni %	1.500 - 3.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	850 - 1000
Yield Strength in Mpa	630 min
Elongation in %	8 min.
Reduction of Area in %	-
Hardness in HB	248 - 302
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
1.4059	DIN	Germany	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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