



## 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			Heat Treatment	
Carbon	C %	0.200 - 0.270	Normalising or Annealing	
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		
-	-	-		
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

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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