

Material: AFNOR NF 1.4313

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF 1.4313 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.050 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.700 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	12.000 - 14.000		
Nickel	Ni %	3.500 - 4.500		
Molybdenum	Mo %	0.300 - 0.700		
Nitrogen	N %	0.020 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	650 - 1100
-	-	-	Yield Strength in Mpa	520 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	320 max.
-	-	-	Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
425C11	BS	British	Casting
2074/H3C	AS	Australia	Casting
2074/H3CM	AS	Australia	Casting
Z 4 CN 13.4 M	AFNOR NF	France	Casting
Z 4 CND 13.4 M	AFNOR NF	France	Casting
1.4313	EN	European Union	Casting
X3CrNiMo13-4	EN	European Union	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com