

Material: AFANOR NF Z 4 CND 19.13 M

Standard Specification for Steel Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: AFANOR NF Z 4 CND 19.13 M Steel Casting

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.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Chromium	Cr %	17.500 - 20.400		
Molybdenum	Mo %	3.000 - 3.5000		
Chromium	Cr %	17.500 - 20.500		
Nickel	Ni %	12.000 - 15.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	550 min.
-	-	-	Yield Strength in Mpa	260 min.
-	-	-	Elongation in %	35 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-
Material	Standard	Country	Grade Belong to the Industry	
A351 CK3MCuN	ASTM	USA	Casting	
SA-351 CK3MCuN	ASME	USA	Casting	
317 C 12	BS	British	Casting	
422940	CSN	Czech Republic	Casting	
J92810	UNS	USA	Casting	
J93254	UNS	USA	Casting	
A351 CE20	ASTM	USA	Casting	

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