

Material: CSN 422940

Standard Specification for Steel Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: CSN 422940 Cr-Ni-Mo Steel Casting 42 2940

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	17.000 - 21.000		
Nickel	Ni %	9.000 - 13.000		
Molybdenum	Mo %	2.000 - 2.500		
P + S	P% + S%	0.070 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	440 - 640
-	-	-	Yield Strength in Mpa	210 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in HB	130 - 190
-	-	-	Impact in Joule	450 @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A351 CK3MCuN	ASTM	USA	Casting
Z4Cmd 19.13M	AFNOR NF	France	Casting
317 C 12	BS	British	Casting
SA-351 CK3MCuN	ASME	USA	Casting
J92810	UNS	USA	Casting
J93254	UNS	USA	Casting
A351 CE20	ASTM	USA	Casting

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