

Material: UNS J91804

Standard Specification for Cast Chromium Nickel Stainless Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: UNS J91804 Cast Chromium Nickel Stainless Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	15.500 - 17.500		
Nickel	Ni %	3.500 - 5.500		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	790 min.
-	-	-	Yield Strength in Mpa	580 min.
-	-	-	Elongation in %	16 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CB6	ASTM	USA	Casting
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