

Material: ASTM A743 CK20

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A743 / A743M Casting, Iron-Chromium-Nickel, corrosion Resistant Casting, for General Application

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 max.	Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	23.000 - 27.000		
Nickel	Ni %	19.000 - 22.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	195 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A351 CK20	ASTM	USA	Casting
SA-351 Grade CK20	ASME	USA	Casting
1.4843	DIN	Germany	Round and Flat Wire
SCS 18	JIS	Japan	Centrifugal Cast Steel Pipes
Ch25N20	GOST	Russia	Precision Alloys
H 23 N 18	PN	Poland	Heat Resisting Steel
T 25 NiCr 250	STAS	Romania	Casting

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