

Material: ASTM A743 CA40F

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 Valves, Pumps, General Engineering, Automobile and Other Industries Grade

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment			
Carbon	C %	0.200 - 0.400	Annealing or Hardening + Tempering			
Silicon	Si %	1.500 max.				
Manganese	Mn %	1.000 max.				
Phosphorus	P %	0.040 max.				
Sulphur	S %	0.200 - 0.400				
Chromium	Cr %	11.500 - 14.000				
Nickel	Ni %	1.000 max.				
Molybdenum	Mo %	0.500 max.				
Iron	Fe %	Balance				
-	-	-				
-	-	-	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	690 min.		
-	-	-	Yield Strength in Mpa	485 min.		
-	-	-	Elongation in %	12 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HB	269 max.		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J9154	UNS	USA	Casting
420F	AISI	USA	Bar, Wire, Shape and Forging
A895 Type 420F	ASTM	USA	Plate, Sheet and Strip
A959 Type 420F	ASTM	USA	Bar, Wire, Shape and Forging
A582 Type 420F	ASTM	USA	Bar and Forging
SUS 420F	JIS	Japan	Bar and Forging
S 42020	UNS	USA	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

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