

Material: ASTM A743 CK35MN

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 %	0.035 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 24.000		
Nickel	Ni %	20.000 - 22.000		
Molybdenum	Mo %	6.000 - 6.800		
Copper	Cu %	0.400 max.		
Nitrogen	N %	0.210 - 0.320		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	570 min.
			Yield Strength in Mpa	280 min.
			Elongation in %	35 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A213 S 32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
A240 S 32050	ASTM	USA	Plate, Sheet and Strip
A 959 S 32050	ASTM	USA	Plate, Sheet and Strip
A358 S 32050	ASTM	USA	Pipes
A249 S 32050	ASTM	USA	Tubes for Superheaters and Heat Exchanges
S 32050	UNS	USA	Plate, Sheet and Strip
STS 350	KS	Korea	Casting

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