

Material: ASTM A744 Grade CN7MS

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A744 / A744M Iron-Chromium-Nickel, Corrosion Resistant, for Severe Service

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 %	2.500 - 3.500		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	22.000 - 25.000		
Molybdenum	Mo %	2.500 - 3.000		
Copper	Cu %	1.500 - 2.000		
			Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	485 min.
-	-	-	Yield Strength in Mpa	205 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
A743 CN7MS	ASTM	USA	Casting
J94650	UNS	USA	Casting
G X 2 NiCrMoCuN 25-20	DIN	Germany	Casting
T6 CuMoNiCr 200	STAS	Romania	Casting
1.4536	DIN	Germany	Casting
A743 J94650	ASTM	USA	Casting
CN-7MS	NBR	Brazil	Casting

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