

# 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		
Carbon	C %	0.070 max.
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
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
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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