

Material: ASTM A743 HG10MNN

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

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A743 / A743M Iron-Chromium, 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 %	0.070 - 0.110	As - Cast	
Silicon	Si %	0.700 max.		
Manganese	Mn %	3.000 - 5.000		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.500 - 20.500		
Nickel	Ni %	11.500 - 13.500		
Molybdenum	Mo %	0.250 - 0.450		
Copper	Cu %	0.500 max.		
Nitrogen	N %	0.200 - 0.300		
Niobium	Nb %	8°C -1.000 max.	Mechanical Properties	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Tensile Strength in Mpa	525 min.
			Yield Strength in Mpa	225 min.
			Elongation in %	20 min.
			Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A297 HG10MnN	ASTM	USA	Casting
A351 HG10MnN	ASTM	USA	Casting
1.4832	DIN	Germany	Casting
LH 19 N 14 G	PN	Poland	Casting
J92604	UNS	USA	Casting
19 Cr 12 Ni 4 Mn	Common	-	Casting
S30409	UNS	USA	General Corrosive Service

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