

Material: MSZ Ao 10 Ni 20

Standard Specification for Steel Castings, Ferritic and Martensitic for Pressure-Containing and Other Applications for Low-Temperature Service

Group: Ferrous Mild Steel Alloys

Sub Group: MSZ Ao 10 Ni 20 Ferritic and Martensitic Steel Castings for Pressure-Containing and Low-Temperature Service

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment
Carbon	C %	0.120 max.	
Silicon	Si %	0.600 max.	
Manganese	Mn %	0.500 - 0.800	
Phosphorus	P %	0.025 max.	
Sulphur	S %	0.025 max.	
Nickel	Ni %	4.500 - 5.500	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	Normalizing or Annealing or Hardening + Tempering
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
-	-	-	
Mechanical Properties			
			Tensile Strength in Mpa
			485 min.
			Yield Strength in Mpa
			275 min.
			Elongation in %
			24 min.
			Reduction of Area in %
			35 min.
			Hardness in BHN
			-
			Impact in Joule
			20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
E2512	AISI	USA	Casting
GX 10 Ni 5	DIN	Germany	Casting
2512	SAE	USA	Steel
AM 8 Ni 18	UNE	Spain	Casting
J41501	UNS	USA	Casting
1.5681	DIN	Germany	Casting
A757 B4N B4Q	ASTM	USA	Casting

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