



## 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.	Normalising or Annealing or Hardening + Tempering	
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		
-	-	-	<b>Mechanical Properties</b> 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	
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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	

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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