

Material: ASTM A240 S32205

Standard Specification for Austenitic-Ferritic Chromium-Nickel-Manganese Stainless Steel Plate, Sheet and Strip

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A240 S32205 Austenitic-Ferritic Chromium-Nickel-Manganese Stainless Steel Plate, Sheet and Strip

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

Grade Belongs to the Industry: Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	22.000 - 23.000		
Nickel	Ni %	4.500 - 6.500		
Molybdenum	Mo %	3.000 - 3.500		
Nitrogen	N %	0.140 - 0.200		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	655 min.
-	-	-	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	293 max.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J93372	UNS	USA	Casting
A276 S32205	ASTM	USA	Bar and Shapes
A988 S32205	ASTM	USA	Casting
J92205	UNS	USA	Casting
Z3CNUD26.5M	AFNOR NF	France	Casting
A995 1B	ASTM	USA	Casting
A890 1B	ASTM	USA	Casting

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