

Material: ASTM A995 27Cr7NiMoWN

Standard Specification for Castings, Austenitic-Ferritic (Duplex) Stainless Steel, for Pressure-Containing Parts

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A995 / A995M Austenitic-Ferritic (Duplex) Stainless Steel, for Pressure-Containing Parts

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.030 max.	Solution Annealing	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 - 3.000		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	26.000 - 28.000		
Nickel	Ni %	6.000 - 8.000		
Molybdenum	Mo %	2.000 - 3.500		
Copper	Cu %	1.000 max.		
Tungsten	W %	3.000 - 4.000		
Nitrogen	N %	0.300 - 0.400	Mechanical Properties	
Boron	Bo %	0.0010 - 0.0100	Tensile Strength in Mpa	690 min.
Barium	Ba %	0.0002 - 0.0100	Yield Strength in Mpa	515 min.
Ce + La	Ce % + La %	0.005 - 0.030	Elongation in %	20 min.
Iron	Fe %	Balance	Reduction of Area in %	-
			Hardness in BHN	-
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A890 7A	ASTM	USA	Casting
J93379	UNS	USA	Casting
CD3MWN	ASTM	USA	Casting
7A	ASTM	USA	Casting
A890 CD3MWN	ASTM	USA	Casting
A995 J93379	ASTM	USA	Casting
A995 Grade 7A	ASTM	USA	Casting

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