

Standard Specification for Castings, Iron-Chromium-Nickel-Molybdenum Corrosion-Resistant, Duplex (Austenitic/Ferritic) for General Application

Sub Group: ASTM A890 / A890M Iron-Chromium-Nickel-Molybdenum Corrosion-Resistant, Duplex (Austenitic/Ferritic) for General Application

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	Mechanical Properties	
Copper	Cu %	1.000 max.		
Nitrogen	N %	0.300 - 0.400		
Tungsten	W %	3.000 - 4.000		
Barium	Ba %	0.0002 - 0.0100		
Boron	Bo %	0.001 - 0.010		
Ce + La	Ce% + La%	0.005 - 0.030		
Iron	Fe %	Balance	Tensile Strength in Mpa	690 min.
			Yield Strength in Mpa	485 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
A995 7A	ASTM	USA	Casting
J93379	UNS	USA	Casting
A890 CD3MWN	ASTM	USA	Casting
A890 Grade 7A	ASTM	USA	Casting
-		-	-
-	-	-	-
-	-	-	-

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