

Material - ASTM A890 7A

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

Group - Ferrous Stainless Steel Alloys

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

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.	Mechanical Properties	
Nitrogen	N %	0.300 - 0.400	Tensile Strength in Mpa	690 min.
Tungsten	W %	3.000 - 4.000	Yield Strength in Mpa	485 min.
Barium	Ba %	0.0002 - 0.0100	Elongation in %	20 min.
Boron	Bo %	0.001 - 0.010	Reduction of Area in %	-
Ce + La	Ce% + La%	0.005 - 0.030	Hardness in BHN	-
Iron	Fe %	Balance	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
-	-	-	-
-	-	-	-
-	-	-	-

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.