

Material - ASTM A890 CD3MN

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 %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	21.000 - 23.500		
Nickel	Ni %	4.500 - 6.500		
Molybdenum	Mo %	2.500 - 3.500		
Copper	Cu %	1.000 max.	Mechanical Properties	
Nitrogen	N %	0.100 - 0.300	Tensile Strength in Mpa	620 min.
Iron	Fe %	Balance	Yield Strength in Mpa	415 min.
-	-	-	Elongation in %	25 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A995 4A	ASTM	USA	Casting
J92205	UNS	USA	Casting
A240 UNS S31803	ASTM	USA	Steel, Sheet, Plate and Strip
A240 UNS S32205	ASTM	USA	Steel, Sheet, Plate and Strip
22Cr5NiMoN	ASTM	USA	Casting
4A	ASTM	USA	Casting
H10C	AS	Australia	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

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