



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - ASTM A890 CD3MWN

**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.		
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		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A995 7A	ASTM	USA	Casting
J93379	UNS	USA	Casting
27Cr7NiMoWN	ASTM	USA	Casting
7A	ASTM	USA	Casting
A995 CD3MWN	ASTM	USA	Casting
A995 J93379	ASTM	USA	Casting
-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.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.

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