



## Material - UNS J94650

### Standard Specification for Alloy Steel Casting

Group - Ferrous Stainless Steel Alloys

Sub Group - UNS J94650 Alloy Steel Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	Solution Annealing	
Silicon	Si %	2.500 - 3.500		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	18.000 - 20.000		
Nickel	Ni %	22.000 - 25.000		
Molybdenum	Mo %	2.500 - 3.000		
Copper	Cu %	1.500 - 2.000		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      485 min. Yield Strength in Mpa      205 min. Elongation in %      35 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
G X 2 NiCrMoCuN 25-20	DIN	Germany	Casting
T 6 CuMoNiCr 200	STAS	Romania	Casting
1.4536	DIN	Germany	Casting
A743 CN7MS	ASTM	USA	Casting
1.4536	DIN	Germany	Casting
A743 J94650	ASTM	USA	Casting
CN-7MS	NBR	Brazil	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)**

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