



## Material - UNS J22000

## **Standard Specification for Alloy Steel Casting**

Group - Ferrous Mild Steel Alloys
Sub Group - UNS J22000 Alloy Steel Casting
Application - Intended for Valve, Pump, General Engineering, Au

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700	Annealing or Normalising or Hardening + Tempering	
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.500 - 0.900		
Nickel	Ni %	0.600 - 1.000		
Molybdenum	Mo %	0.900 - 1.200		•
Vanadium	V %	0.030 max.	Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	484 - 655
Copper	Cu %	0.500 max.	Yield Strength in Mpa	275 min.
Iron	Fe %	Balance	Elongation in %	20 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
SA-487 Grade 12A	ASME	USA	Casting	
SA-487 Grade 12B	ASME	USA	Casting	
SA-217 Grade WC5	ASME	USA	Casting	
A487 12B	ASTM	USA	Casting	
A217 WC5	ASTM	USA	Casting	
A487 12N	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

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