



## Material - UNS J12523

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

Group - Ferrous Mild Steel Alloys
Sub Group - UNS J12523 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 %	0.250 max.		
Silicon	Si %	0.060 max.		
Manganese	Mn %	0.700 max.	Normalising or Annealing or Hardening + Tempering	
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Molybdenum	Mo %	0.450 - 0.650		
Iron	Fe %	Balance		
-	-	-		-
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	450 min.
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	22 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	
1.8872	DIN	Germany	Steel	
16 Mo 5	STAS	Romania	Plate	
245	BS	British	Casting	
C 1	MSZ	Hungary	Steel	
FS 12 MD 4	AFNOR NF	France	Wire, Rod and Coil	
G18Mo5	UNI	Italy	Casting	
A356 2	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

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.