



## Material - UNS J42015

### Standard Specification for Alloy Steel Casting

Group - Ferrous Mild Steel Alloys

Sub Group - UNS J42015 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 %	0.200 max.	Normalising + Tempering or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.550 - 0.750		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	1.350 - 1.650		
Nickel	Ni %	2.500 - 3.250		
Molybdenum	Mo %	0.300 - 0.600		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	690 - 827
-	-	-	Yield Strength in Mpa	552 - 686
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardness in HB	230 - 290
-	-	-	Impact in Joule	41 J @ -73°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC2-1	ASME	USA	Casting
1.6783	DIN	Germany	Casting
20NCD12M	AFNOR NF	France	Casting
T15MoCrNi30R	STAS	Romania	Casting
1.6783	EN	European Union	Casting
J42215	UNS	USA	Casting
A352 LC2-1	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.