GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

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		
Carbon	C %	0.200 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising + Tempering or Hardening + Tempering

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