



## Material - DIN 1.5638

### Standard Specification for Steel Casting for Use at Low Temperature

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 1.5638 Steel Casting for Use at Low Temperature

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 - 0.120	Normalising + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Nickel	Ni %	3.300 - 3.800		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	500 - 650
-	-	-	Yield Strength in Mpa	360 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 @ J RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC3	ASME	USA	Casting
J31550	UNS	USA	Casting
1.5638	EN	European Union	Casting
503-490	BS	British	Forging
AM8Ni14	UNE	Spain	Casting
G12Ni14	UNI	Italy	Casting
A352 LC3	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)**

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