

## Material: EN 1.5638

### Standard Specification for Steel Castings for Pressure Purposes; Steel Grades for Use at Low Temperatures

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 1.5638 Steel Castings for Pressure Purposes; Steel Grades for Use at Low Temperatures

**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	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Nickel	Ni %	3.000 - 4.000		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> 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	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC3	ASME	USA	Casting
1.5638	DIN	Germany	Casting
J31550	UNS	USA	Casting
503-490	BS	British	Forging
AM8Ni14	UNE	Spain	Casting
G12Ni14	UNI	Italy	Casting
A352 LC3	ASTM	USA	Casting

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