

Material: ISO 1.5638

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ISO 1.5638 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.060 - 0.120
Silicon	Si %	0.600 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.020 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.200 max.
Nickel	Ni %	3.000 - 4.000
Copper	Cu %	0.300 max.
Vanadium	V %	0.050 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G9Ni14	BS	British	Plate, Tubes and Forging
G9Ni14	ISO	International	Casting
A 352 Grade LC3	ASTM	USA	Casting
A 352 J31550	ASTM	USA	Casting
G 9 Ni 14	CSN	Czech Republic	Casting
G 9 Ni 14	EN	European Union	Casting
G 9 Ni 14	DIN	Germany	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India