GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A352 Grade LC9

Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A352 Grade LC9 Steel Castings, Ferritic and Martensitic, for Pressure-Containing Parts, Suitable for Low-Temperature Service

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Carbon	C %	0.130 max.
Silicon	Si %	0.450 max.
Manganese	Mn %	0.900 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Nickel	Ni %	8.500 - 10.000
Chromium	Cr %	0.500 max.
Molybdenum	Mo %	0.200 max.
Vanadium	V %	0.030 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Quenching + Tempering

Mechanical Properties	
Tensile Strength in Mpa	585 min.
Yield Strength in Mpa	515 min.
Elongation in %	20 min.
Reduction of Area in %	30 min.
Hardness in HB	-
Impact in Joule	27 @ -196°C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J31300	UNS	USA	Steel
SA-352 Grade LC9	ASME	USA	Casting
10222-3 1.5662	EN	European Union	Steel
10222-3 X 8 Ni 9	EN	European Union	Steel
1501-2 510	B.S.	United Kingdom	Steel and Plate
10222-3 X 8 Ni 9	DIN	Germany	Steel
10222-3 1.5662	DIN	Germany	Steel

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email 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.