GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-350 Grade LF1

Standard Specification for Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping Components

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-350 Grade LF1 Carbon and Low-Alloy Steel Forgings, Requiring Notch Toughness Testing for Piping Components

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

Grade Belongs to the Industry - Forgings

Chemical Composition		
Carbon	C %	0.300 max.
Manganese	Mn %	0.600 - 1.350
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.150 - 0.300
Nickel	Ni %	0.400 max.
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.120 max.
Copper	Cu %	0.400 max.
Niobium	Nb %	0.020 max.
Vanadium	V %	0.080 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Normalising & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	415 - 585
Yield Strength in Mpa	205 min.
Elongation in %	25 min.
Reduction of Area in %	38 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
380 St3Gps	GOST	Russia	Steel
380 St2Gps	GOST	Russia	Steel
16523 VSt3Gps	GOST	Russia	Steel
A 350 Grade LF1 Class 1	ASTM	USA	Steel
A 350 Grade LF2 Class 1	ASTM	USA	Steel and Forging
A 350 Grade LF2 Class 2	ASTM	USA	Steel and Forging
9382/4 19 BMn 10 q	STAS	Romania	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.