GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A350 Grade LF3 Class 2

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

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A350 Grade LF3 Class 2 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 - Pipe and Forging

Chemical Composition		
Carbon	C %	0.200 max.
Manganese	Mn %	0.900 max.
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Silicon	Si %	0.200 - 0.350
Nickel	Ni %	3.300 - 3.700
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.120 max.
Copper	Cu %	0.400 max.
Niobium	Nb %	0.020 max.
Vanadium	V %	0.030 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	485 - 655
Yield Strength in Mpa	260 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	27 @ -101˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-350 LF3	ASME	USA	Pipe and Forging
10222-3 12 Ni 14	EN	European Union	Forging
EU 129 FeE 355 Ni 14	EN	European Union	Sheet and Strip
1501-2 503	B.S.	United Kingdom	Steel and Plates
EN 10028-4 12 Ni 14	B.S.	United Kingdom	Steel
4400 AH 80	MSZ	Hungary	Steel
EN 10222-3 1.5637	DIN	Germany	Forging

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.