GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A350 Grade LF3 Class 1

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 1 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	20 @ -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
EN 10028-4 12Ni14	AFNOR NF	France	Steel
EN 10028-4 12 Ni 14	B.S.	United Kingdom	Steel
1501-2 503	B.S.	United Kingdom	Steel and Plates
EU 129 FeE 355 Ni 14	EN	European Union	Sheet and Strip
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

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