GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-350 Grade LF3

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 LF3 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 %	0.200 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
Normalising or Normalising & 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 %	35 min.
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K32025	UNS	USA	Steel
G 3205 SFL 3	JIS	Japan	Steel and Forging
10222-3 12 Ni 14	EN	European Union	Steel and Forging
EN 10028-4 12 Ni 14	B.S.	United Kingdom	Steel
17280 10 Ni 14	DIN	Germany	Steel
EN 102223 12 Ni 14	DIN	Germany	Steel and Forging
A 350 Grade LF3 Class 2	ASTM	USA	Steel and 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.