GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A350 Grade LF6 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 LF6 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 %	0.220 max.
Manganese	Mn %	1.150 - 1.500
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 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 %	0.040 - 0.110
Nitrogen	N %	0.010 - 0.030
Iron	Fe %	Balance
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	455 - 630
Yield Strength in Mpa	360 min.
Elongation in %	22 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	20 @ -51˚C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA-350 Grade LF6 Class 1	ASME	USA	Pipe and Forging
EN 10113-2 S 420 NL	AFNOR NF	France	Steel
EN 10113-2 S 420 NL	B.S.	United Kingdom	Steel
10113-2 Fe E 420 KT N	EN	European Union	Steel
10113-2 1.8912	EN	European Union	Steel
10113-2 S 420 NL	EN	European Union	Steel
EN 10113-2 1.8912	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

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