GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-350 Grade LF9

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 LF9 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 %	0.400 - 1.060
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Nickel	Ni %	1.600 - 2.240
Chromium	Cr %	0.300 max.
Molybdenum	Mo %	0.120 max.
Copper	Cu %	0.750 - 1.250
Niobium	Nb %	0.020 max.
Vanadium	V %	0.040 - 0.110
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Normalising & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	435 - 605
Yield Strength in Mpa	315 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**
K22036	UNS	USA	Steel
6550 12 DChN 2 FL	BDS	Bulgaria	Steel and Casting
977 12DN2FL	GOST	Russia	Steel and Casting
J 1397 4615	SAE	USA	Steel and Bars
J 1249 4617	SAE	USA	Steel
SAE J 404 46B15	AISI	USA	Steel
A 350 Grade LF9	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

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