GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-334 Grade 9

Standard Specification for Seamless and Welded Carbon and Alloy-Steel Tubes for Low-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-334 Grade 9 Seamless and Welded Carbon and Alloy-Steel Tubes for Low-Temperature Service

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.200 max.
Manganese	Mn %	0.400 - 1.060
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Nickel	Ni %	1.600 - 2.240
Copper	Cu %	0.750 - 1.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	435 min.
Yield Strength in Mpa	315 min.
Elongation in %	28 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	18 @ -75°C

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K22035	UNS	USA	Steel
K22036	UNS	USA	Steel
SA-333 Grade 9	ASME	USA	Steel and Pipe
SA-420 Grade WPL9	ASME	USA	Steel and Piping
A 333 Grade 9	ASTM	USA	Steel and Pipe
A 334 Grade 9	ASTM	USA	Steel and Tubing
A 420 Grade WPL 9	ASTM	USA	Steel and Pipe

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.