GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-334 Grade 11

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

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-334 Grade 11 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 %	0.100 max.
Manganese	Mn %	0.600 max.
Phosphorus	P %	0.025 max.
Sulphur	S %	0.025 max.
Silicon	Si %	0.350 max.
Nickel	Ni %	35.000 - 37.000
Chromium	Cr %	0.500 max.
Cobalt	Co %	0.500 max.
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing & Tempering or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	240 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in BHN	190 max.
Impact in Joule	-

www.gravitycastindia.com

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
K93601	UNS	USA	Steel
A 333 Grade 11	ASTM	USA	Steel and Pipe
A 334 Grade 11	ASTM	USA	Steel and Tubing
SA-333 Grade 11	ASME	USA	Steel and Pipe
10994 36N	GOST	Russia	Steel
41 7536 17536	CSN	Czech Republic	Steel
87045 FeNi 36 Pr	PN	Poland	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

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.