GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-213 Grade TP309LMoN

Standard Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-213 Grade TP309LMoN Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.025 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Silicon	Si %	0.700 max.
Chromium	Cr %	23.000 - 26.000
Nickel	Ni %	13.000 - 16.000
Molybdenum	Mo %	0.500 - 1.200
Nitrogen	N %	0.250 - 0.400
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	640 min.
Yield Strength in Mpa	260 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in BHN	256 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S30925	UNS	USA	Steel
AMS-QQ-S-763 309	SAE	USA	Bars, Wires, Shapes and Forging
3100 309 C 32	B.S.	United Kingdom	Steel and Casting
3100 309 C 35	B.S.	United Kingdom	Steel and Casting
1453 309 S 94	B.S.	United Kingdom	Steel
5465 309 S 94	B.S.	United Kingdom	Steel
AMS-QQ-S-763 309	AMS	USA	Bars, Wires, Shapes 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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