GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-213 Grade TP316

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 TP316 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 %	0.080 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	16.000 - 18.000
Nickel	Ni %	10.000 - 14.000
Molybdenum	Mo %	2.000 - 3.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	515 min.
Yield Strength in Mpa	205 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	192 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S31600	UNS	USA	Steel
3111-2 316 S 17	B.S.	United Kingdom	Steel and Wire
1654-5 1.4401	DIN	Germany	Steel
1654-5 X 5 CrNiMo 17 12 2	DIN	Germany	Steel
EU 119 X 6 CrNiMo 17 12 2 KD	EN	European Union	Steel
A 193 B8M	ASTM	USA	Steel
A 320 B8M	ASTM	USA	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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