GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-213 Grade TP202

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 TP202 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 %	0.150 max.
Manganese	Mn %	7.500 - 10.000
Phosphorus	P %	0.060 max.
Sulphur	S %	0.030 max.
Silicon	Si %	1.000 max.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	4.000 - 6.000
Nitrogen	N %	0.025 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	620 min.
Yield Strength in Mpa	310 min.
Elongation in %	35 min.
Reduction of Area in %	-
Hardness in BHN	219 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S20200	UNS	USA	Steel
G 4305 SUS 202	JIS	Japan	Plate, Sheet and Strip
A 213 TP202	ASTM	USA	Steel and Tubing
A 249 TP202	ASTM	USA	Steel and Tubing
A 473 202	ASTM	USA	Steel
A 276 202	ASTM	USA	Bars and Shapes
A 314 202	ASTM	USA	Steel and Bars

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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