GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - Gravity 254 SMO

Standard Specification for Stainless and Heat Resisting Steels

Group - Ferrous Stainless Steel Alloys

Sub Group - Gravity 254 SMO Stainless and Heat Resisting Steels

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

Grade Belongs to the Industry - Steel, Bars, Rods, Casting and Forging

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	18.000 - 20.000
Molybdenum	Mo %	5.000 - 7.000
Nickel	Ni %	17.000 - 19.000
Copper	Cu %	0.700 max.
Nitrogen	N %	0.200 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or As-Cast or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	400 max.
Yield Strength in Mpa	200 min.
Elongation in %	25 min.
Reduction of Area in %	40 min.
Hardness in HB	130 - 230
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S31254	UNS	USA	Steel
EN 10088-2 X 1 CrNiMoCuN 20-18-7	UNI	Italy	Casting
A 182 F 44	ASTM	USA	Steel and Pipe
142378 2378	SS	Sweden	Steel
EN 10088-3 1.4547	DIN	Germany	Steel
10250-4 X 1 CrNiMoCuN 20 18 7	EN	European Union	Steel and Forging
10250-4 1.4547	EN	European Union	Steel 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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