GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-3 X12CrS13 (4005-416-00-I)

Standard Specification for Stainless Steels for General Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-3 X12CrS13 (4005-416-00-I) Stainless Steels for General Purposes

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

Grade Belongs to the Industry - Wire

Chemical Composition		
Carbon	C %	0.080 - 0.150
Silicon	Si %	1.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.150 max.
Chromium	Cr %	12.000 - 14.000
Molybdenum	Mo %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	950 min.
Yield Strength in Mpa	-
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S41600	UNS	USA	Steel
A 473 416	ASTM	USA	Steel and Forging
10088-1 1.4005	EN	European Union	Steel
EN 10088-1	DIN	Germany	Steel
G 4318 SUS 416	JIS	Japan	Steel and Bars
6901 X 12 CrS 13	UNI	Italy	Steel
EN 10088-3 X12CrS13	AFNOR NF	France	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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