GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS ISO 16143-2 X4CrNiMo16-5-1 (4418-431-77-E)

Standard Specification for Corrosion-Resistant Semi-Finished Products, Bars, Rods and Sections

Group - Ferrous Stainless Steel Alloys

Sub Group - BS ISO 16143-2 X4CrNiMo16-5-1 (4418-431-77-E) Corrosion-Resistant Semi-Finished Products, Bars, Rods and Sections

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

Grade Belongs to the Industry - Bars and Rods

Chemical Composition		
Carbon	C %	0.060 max.
Silicon	Si %	0.700 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	15.000 - 17.000
Molybdenum	Mo %	0.800 - 1.500
Nickel	Ni %	4.000 - 6.000
Nitrogen	N %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Quenching + Tempering

Mechanical Properties	
Tensile Strength in Mpa	900 - 1100
Proof Strength in Mpa	700 min.
Elongation in %	16 min.
Reduction of Area in %	-
Hardness in HB	-
Impact in Joule	80 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
10250-4 1.4418	EN	European Union	Steeland Forging
10028-7 1.4418	EN	European Union	Steel
10272 1.4418	EN	European Union	Steel and Bar
10088-3 1.4418	EN	European Union	Steel
EN 10088-2 1.4418	DIN	Germany	Steel
EN 10088-3 1.4418	DIN	Germany	Steel
EN 10028-7 1.4418	DIN	Germany	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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