GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 10216-5 1.4424 (X2CrNiMoSi18-5-3)

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS EN 10216-5 1.4424 (X2CrNiMoSi18-5-3) Seamless Steel Tubes for Pressure Purposes

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

Grade Belongs to the Industry - Tubing

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.400 - 2.000
Manganese	Mn %	1.200 - 2.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.015 max.
Nitrogen	N %	0.050 - 0.100
Chromium	Cr %	18.000 - 19.000
Molybdenum	Mo %	2.500 - 3.000
Nickel	Ni %	4.500 - 5.200
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	700 - 900
Proof Strength in Mpa	480 min.
Elongation in %	30 min.
Reduction of Area in %	-
Hardness in HRB	-
Impact in Joule	120 @ RT

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
S31500	UNS	USA	Steel
X 2 CrNiMoSi 19 5	DIN	Germany	Steel
SA-789 UNS S31500	ASME	USA	Steel and Tubing
A 959 S31500	ASTM	USA	Steel
A 928 S31500	ASTM	USA	Steel and Pipe
A 790 S31500	ASTM	USA	Steel and Pipe
A 789 S31500	ASTM	USA	Steel and Tubing

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.