GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 6911 431 (X 15Cr16Ni2)

Standard Specification for Stainless Steel Plate, Sheet and Strip Specification

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 6911 431 (X 15Cr16Ni2) Stainless Steel Plate, Sheet and Strip Specification

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition		
Carbon	C %	0.100 - 0.200
Silicon	Si %	1.000 max.
Manganese	Mn %	1.000 max.
Nickel	Ni %	1.250 - 2.500
Chromium	Cr %	15.000 - 17.000
Molybdenum	Mo %	0.300 max.
Sulphur	S %	0.030 max.
Phosphorus	P %	0.045 max.
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Raw or Annealing or Normalizing or Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	830 min.
Yield Strength in Mpa	640 min.
Elongation in %	10 min.
Reduction of Area in %	-
Hardness in BHN	262 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J 412 51431	SAE	USA	Steel
J 405 51431	SAE	USA	Steel
AMS 5628 51431	SAE	USA	Sheet, Bar, Wire, Forging and Tubing
AMS-S-18732 51431	SAE	USA	Sheet, Bar, Wire, Forging and Tubing
A 276 431	ASTM	USA	Steel, Bar and Shapes
A 479 431	ASTM	USA	Steel and Bar
A 473 431	ASTM	USA	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

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.