



## Material - AS 444

### Standard Specification for Alloy Steels - Stainless and Heat Resisting Steel Plate, Sheet and Strip

Group - Ferrous Stainless Steel Alloys

Sub Group - AS 444 Alloy Steels - Stainless and Heat Resisting Steel Plate, Sheet and Strip

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

Grade Belongs to the Industry - Plate, Sheet and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.025 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	1.000 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.500 - 19.500		
Molybdenum	Mo %	1.750 - 2.500		
Nickel	Ni %	1.000 max.	<b>Mechanical Properties</b> Tensile Strength in Mpa   415 min. Yield Strength in Mpa   310 min. Elongation in %   20 min. Reduction of Area in %   - Hardness in HB   217 max. Impact in Joule   -	
Ti + Nb	Ti% + Nb%	0.800 max.		
Copper	Cu %	0.350 max.		
Nitrogen	N %	0.035 max.		
Nb+Ti	Nb% + Ti%	0.800 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-731 18 Cr-2Mo	ASTM	USA	Casting
A176 S44400	ASTM	USA	Plate, Sheet and Strip
F.3123	UNE	Spain	Casting
S44400	UNS	USA	Plate, Sheet and Strip
X 2 CrMoTiNb 18-2	UNE	Spain	Plate, Sheet and Strip
444	SAE	USA	Plate, Sheet and Strip
A731 18Cr-2Mo	ASTM	USA	Casting

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

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