



Material - AS XF 500

Standard Specification for Hot-Rolled Steel Flat Products

Group - Ferrous Mild Steel Alloys

Sub Group - AS XF 500 Hot-Rolled Steel Flat Products

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

Grade Belongs to the Industry - Flat

Chemical Composition			Heat Treatment	
Carbon	C %	0.110 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.350 max.		
Manganese	Mn %	1.800 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	0.700 max.		
Nickel	Ni %	0.150 max.		
Molybdenum	Mo %	0.500 max.		
Vanadium	V %	0.100 max.		
Aluminium	Al %	0.100 max.		
Copper	Cu %	0.150 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	570 min.
-	-	-	Yield Strength in Mpa	480 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12 MCh	GOST	Russia	Steel
L 17 HM	PN	Poland	Casting
STE 285	DIN	Germany	Tube
TS 15 CD 2-05	AFNOR NF	France	Tube
XF 400	AS	Australia	Flat
J12540	UNS	USA	Casting
A356 5	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

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.