

# Material: AS XF 400

## Standard Specification for Hot-Rolled Steel Flat Products

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** AS XF 400 Hot-Rolled Steel Flat Products

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

**Grade Belongs to the Industry:** Flat

Chemical Composition		
Carbon	C %	0.110 max.
Silicon	Si %	0.350 max.
Manganese	Mn %	1.600 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.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	460 min.
Yield Strength in Mpa	380 min.
Elongation in %	25 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
J12540	UNS	USA	Casting
XF 500	AS	Australia	Flat
A356 5	ASTM	USA	Casting

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