

Material: DIN 1.8872

Standard Specification for Flat Products for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.8872 Flat Products for Pressure Purposes

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	1.100 - 1.700		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.008 max.		
Chromium	Cr %	0.500 max.		
Nickel	Ni %	1.000 max.		
Molybdenum	Mo %	0.500 max.		
Vanadium	V %	0.150 min.	Mechanical Properties	
Titanium	Ti %	0.030 max.	Tensile Strength in Mpa	550 - 730
Niobium	Nb %	0.050 max.	Yield Strength in Mpa	380 min.
Zirconium	Zr %	0.050 max.	Elongation in %	17 min.
Aluminium	Al %	0.020 max.	Reduction of Area in %	-
Copper	Cu %	0.300 max.	Hardness in BHN	-
Iron	Fe %	Balance	Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12523	UNS	USA	Casting
16 Mo 5	STAS	Romania	Plate
245	BS	British	Casting
C 1	MSZ	Hungary	Steel
FS 12 MD 4	AFNOR NF	France	Wire, Rod and Coil
G18Mo5	UNI	Italy	Casting
A356 2	ASTM	USA	Casting

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