

Material: STAS 16 Mo 5

Standard Specification for Boiler Plates

Group: Ferrous Mild Steel Alloys

Sub Group: STAS 16 Mo 5 Boiler Plates

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

Grade Belongs to the Industry: Plates

Chemical Composition			Heat Treatment	
Carbon	C %	0.120 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.300 max.		
Molybdenum	Mo %	0.450 - 0.650		
Aluminium	Al %	0.010 max.	Mechanical Properties	
Copper	Cu %	0.300 max.	Tensile Strength in Mpa	450 min.
Nitrogen	N %	0.009 max.	Yield Strength in Mpa	240 min.
Arsenic	As %	0.070 max.	Elongation in %	22 min.
Aluminium	Al %	0.010 max.	Reduction of Area in %	35 min.
Copper	Cu %	0.300 max.	Hardness in BHN	-
Iron	Fe %	Balance	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8872	DIN	Germany	Steel
J12523	UNS	USA	Casting
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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Customer Care: +91-99090 45075 Email: info@icastllp.com