

ASTM A204/A204M

ASTM A204/A204M Specification FOR PRESSURE VESSEL PLATES, ALLOY STEEL,
MOLYBDENUM



ASME SA204 is a kind of Mo-alloy steel material used to fabric high temperature pressure vessels. Obviously, SA204 this property is based on it's Mo composition. ASME SA-204/SA-204M SA204 has three grades or levels-- Grade A/B/C. SA204 steel grade specification covers molybdenum alloy, intended particularly of welded boilers and others pressure vessels steel plate in SA204 Gr. A, SA204 Gr .B and SA204 Gr .C.

Standard:ASME SA-204/SA-204M
Grade : SA-204 Gr.A, SA-204 Gr.B, SA-204 Gr.C
Thickness : 8mm -260mm
Width : 1000mm-4000mm

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Length : 1000mm-20000mm
MOQ: 1 PC
Product type : Steel plate
Delivery time : Promptly (Stock) or 10-40 days (Production)
Stock : Available
MTC: Available
Delivery condition: As Rolled or Normalized
Thickness over 40mm, should be Normalized

**TABLE 1
CHEMICAL REQUIREMENTS**

Element	Composition, %		
	Grade A	Grade B	Grade C
Carbon, max ^A ;			
Up to 1 In. [25 mm] Incl, In thickness	0.18	0.20	0.23
Over 1 In. to 2 In. [50 mm] Incl, In thickness	0.21	0.23	0.26
Over 2 In. to 4 In. [100 mm] Incl, In thickness	0.23	0.25	0.28
Over 4 In. [100 mm] In thickness	0.25	0.27	0.28
Manganese, max:			
Heat analysis	0.90	0.90	0.90
Product analysis	0.98	0.98	0.98
Phosphorus, max ^A	0.035	0.035	0.035
Sulfur, max ^A	0.035	0.035	0.035
Silicon:			
Heat analysis	0.15-0.40	0.15-0.40	0.15-0.40
Product analysis	0.13-0.45	0.13-0.45	0.13-0.45
Molybdenum:			
Heat analysis	0.45-0.60	0.45-0.60	0.45-0.60
Product analysis	0.41-0.64	0.41-0.64	0.41-0.64

^A Applies to both heat and product analyses.

**TABLE 2
TENSILE REQUIREMENTS**

	Grade A		Grade B		Grade C	
	ksi	[MPa]	ksi	[MPa]	ksi	[MPa]
Tensile strength	65-85	[450-585]	70-90	[485-620]	75-95	[515-655]
Yield strength, min ^A	37	[255]	40	[275]	43	[295]
Elongation In 8 In. [200 mm], min, %	19 ^B		17 ^B		16 ^B	
Elongation In 2 In. [50 mm], min, %	23 ^B		21 ^B		20 ^B	

^A Determined by either the 0.2% offset method or the 0.5% extension-under-load method.

^B See Specification A20/A 20M.

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ASME SA204 Gr.A pressure vessel steel is widely used in petroleum, chemical industry, power station, boiler, etc, used to make the reactor, heat exchanger, separator, spherical tank, liquefied gas, nuclear reactor pressure vessel, boiler steam drum steam, liquefied petroleum, hydropower station, high pressure pipe.

ASTM SA204

ASTM A204 Gr.A alloy steel plate

ASTM A204 Gr.B steel plate price

ASTM A204 Gr.C steel sheet supplier

ASME SA204 Gr.A steel plate for pressure vessels

ASME SA204 Gr.B alloy steel sheet offer

ASME SA204 Gr.C steel plate competitive price

We are a professional ASME SA204 and ASME A204 steel stockist and supplier. We can supply different product type of ASME SA204. If you have any need of ASME SA204 steel please do not hesitate to contact us