



### ASTM A299 Gr.A Pressure Vessel Steel

ASTM A299 Gr.A material is a manganese-silicon carbon steel plate for use in welder boilers and other pressure vessels. ASTM A299 pressure vessel plates under this specification are produced in two grades: A299 Gr.A and [A299 Gr.B](#). The specified minimum yield strength decreases for A299 Gr.A plates thickness over 1 inch [25mm].

#### **ASTM A299 Gr.A Pressure Vessel Plates Size:**

Thickness: 3-150mm

Width: 1220-4200mm

Length: 5000-18000mm

Coils available: 1.2 to 25mm

#### ASTM A299 Grade A Steel Chemical Requirements.

Grade	The Composition (by weight, heat analysis, %)				
	Carbon, max.	Silicon	Manganese	Phosphorus, max.	Sulfur, max.
A299 Gr.A	0.28	0.15-0.40	0.90 -1.50	0.025	0.025

Carbon Equivalent:  $C_{eq} = \left[ C + \frac{Mn}{6} + \frac{(Cr + Mo + V)}{5} + \frac{(Ni + Cu)}{15} \right] \%$

#### **ASTM A299 Gr.A Steel Mechanical Properties:**

Material	Yield strength Min. Mpa[ksi]	Yield strength Min. Mpa[ksi]	Tensile strength Mpa[ksi]	Elongation in 8 in.	Elongation in 2 in.
	thickness $\leq 25mm$	thickness $> 25mm$		Min, %	Min, %
A299 Gr.A	290[42]	275[40]	515-655 [75-95]	16	19

#### **ASTM A299 Gr.A Steel Plate Heat Treatment:**

ASTM A299 plates 2 inch [50mm] and under in thickness are normally supplied in the as-rolled condition. Plates may be ordered normalized or stress relieved, or both. ASTM A299 steel plates products over 2 inch [50mm] in thickness shall be normalized.

#### **ASTM A299 Gr.A Steel Plate Machining Service:**

Cutting

Welding

Grinding

Drilling

Turning

Shanghai Katalor Enterprise, a ASTM A299 pressure vessel plates supplier, is located in Pudong district of Shanghai city. It is only 30 minutes from Pudong International airport to our company. If you need ASTM A299 Gr.A pressure vessel plates, ASTM A299 Gr.A carbon steel plates, A299 Gr.A sheets, or A299 Gr.A coils, we sincerely invite you to visit factory. We will pick you up at the airport if you tell us your schedule.



Shanghai Katalor Enterprises

ONCE BELIEVE, TRUST FOREVER!

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**Shanghai Katalor Enterprises Co., Ltd** located in shanghai of china, is specialized in manufacturing and exporting steel and casting product. Based on the domestic rich product resources and professional research on international market, Katalor's service has already spread many countries in Europe , America, Southeast Asia, Middle East, South America, Africa, and so on.

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