

**ASTM A299 Pressure Vessel Steel**

ASTM A299 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. The steel shall be killed and shall conform to the fine austenitic grain size requirement. Tension test shall be made to conform to the requirements. There are two grades Grade A, and Grade B under ASTM A299 specification.

ASTM A299 Pressure Vessel Plates Size:

Thickness: 3-150mm

Width: 1220-4200mm

Length: 5000-18000mm

ASTM A299 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
A299 Gr.B	0.30	0.15-0.40	0.90 -1.50	0.025	0.025

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

ASTM A299 Steel Mechanical Property :

Material	Yield strength Min. Mpa[ksi]	Yield strength Min. Mpa[ksi]	Tensile strength	Elongation in 8 in.	Elongation in 2 in.
	thickness \leq 25mm	thickness >25mm	Mpa[ksi]	Min, %	Min, %
A299 Gr.A	290[42]	275[40]	515-655 [75-95]	16	19
A299 Gr.B	325[47]	310[45]	550-690 [80-100]	16	19

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.

Additional Service:

Chemical composition test, additional tension test, Charpy V-Notch Impact Test, Drop Weight Test, High- Temperature Tension Test, Ultrasonic Examination, Magnetic particle examination, size and dimension examination

Shanghai Katalor Enterprise, a ASTM A299 pressure vessel plates supplier, is located in Pudong district of Shanghai city. If you need ASTM A299 pressure vessel plates, ASTM A299 carbon steel plates, [A299 Gr.A steel](#) and A299 Gr.B plates, we sincerely invite you to visit factory. We will pick you up at the airport if you tell us your schedule.



Shanghai Katalor Enterprises

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Email: info@katalor.com

Tel: 0086-21-61182423



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.

Contact US:

Phone: 0086-18317160019

TEL: 0086-21-61182423

Fax: 0086-21-61182425

Email: info@katalor.com

Address : Room 301, Unit 6, lane 2500, xiupu Road, Kangqiao Industrial Area, Pudong New District, Shanghai

Office Address: Room 301, Unit 6, lane 2500, xiupu Road, Kangqiao Industrial Area, Pudong New District, Shanghai