



ASME SA299 Grade B Carbon Steel

ASME SA299 Grade B is a manganese-silicon carbon steel plate for use in welder boilers and other pressure vessels. ASME SA299 carbon steel under this specification are produced in two grades: SA299 Gr.A and SA299 Gr.B. ASME SA299 Grade B steel is widely used for manufacturing pressure and boiler equipments. Plates of this standard under this thickness of 50 mm are normally supplied in as-rolled condition. [ASME SA299](#) Plates may be ordered normalized or stress relieved, or both. Plates over 50 mm in thickness shall be normalized.

[ASME SA299 Grade B](#) Steel Chemical Requirements.

Grade	The Composition (by weight, heat analysis, %)				
	Carbon, max.	Silicon	Manganese	Phosphous, max.	Sulfur, max.
SA299 Gr.B	0.30	0.15-0.40	0.90 -1.50	0.025	0.025

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

ASME SA299 Grade B 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, %
SA299 Gr.B	325[47]	310[45]	550-690 [80-100]	16	19

Heat Treatment:

ASME SA299 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. ASME SA299 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 is a ASME SA299 Gr.B carbon steels supplier in China, supplying [SA299 Grade A](#) plates and SA299 Grade B stele plates with various sizes and shapes. If you are looking for ASME SA299 Grade B carbon steel plates, or SA299 Gr.B plate price, welcome to send your requirement to us info@katalor.com. We sincerely invite you to visit factory.



Shanghai Katalor Enterprises

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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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