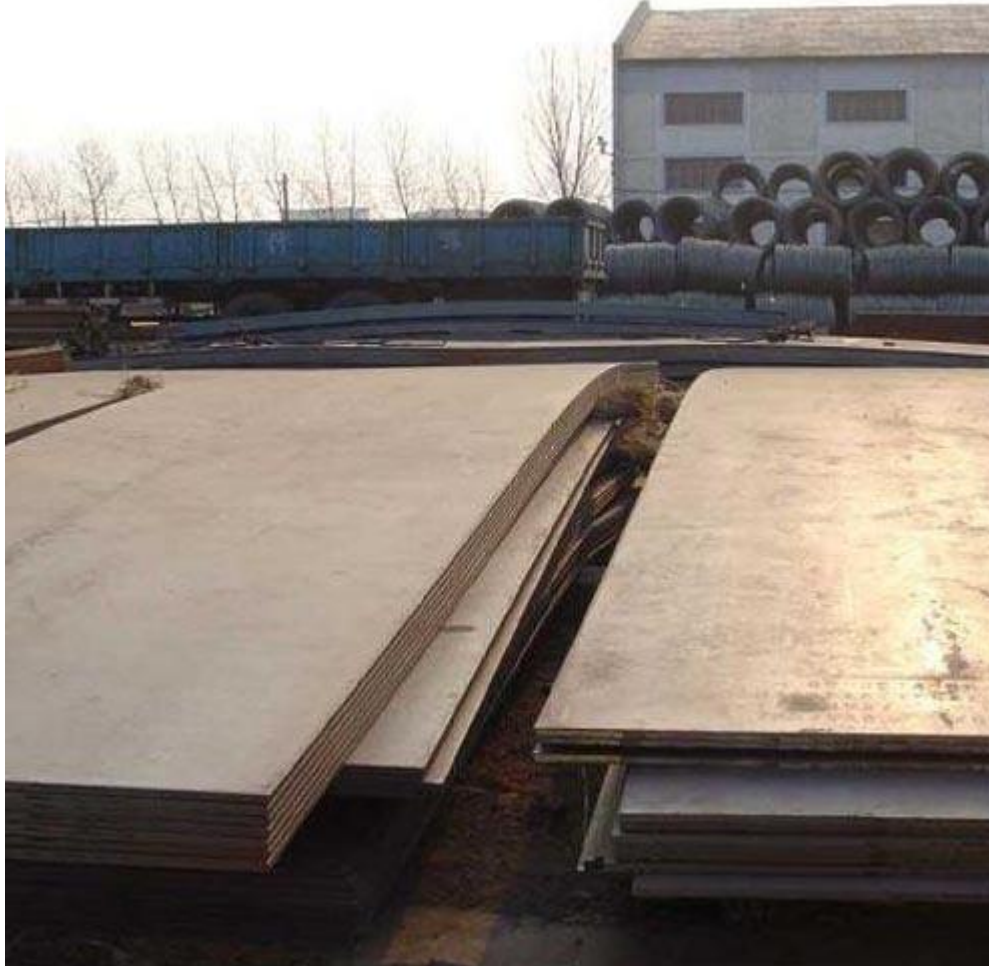


ASTMA299/A299M

ASTM A299/A299M specification for Pressure Vessel plates, carbon steel, manganese-silicon.



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 specified. ASTM A299/A299M standard main steel grade: ASTM A299/A299M Grade A, B (A299GRA, B).

Standard: ASTM A299/A299M
Grade : ASTM A299 Gr A or B
Thickness : 8mm -260mm
Width : 1000mm-4000mm
Length : 1000mm-20000mm
MOQ: 1 PC
Product type : Steel plate
Delivery time : Promptly (Stock) or 10-40 days (Production)

EMAIL: info@steelguang.com

TEL: 0086-371-55023661

Stock : Available
MTC: Available
Delivery condition: As Rolled or Normalized
Thickness over 50mm, should be Normalized

TABLE 1 Chemical Requirements

Elements	Composition, %
Carbon, max ^A :	
1 in. [25 mm] and under	0.28
Over 1 in. [25 mm]	0.30
Manganese:	
1 in. [25 mm] and under	
Heat analysis	0.90 to 1.40
Product analysis	0.84 to 1.52
Over 1 in. [25 mm]	
Heat analysis	0.90 to 1.50
Product analysis	0.84 to 1.62
Phosphorus, max ^A	0.035
Sulfur, max ^A	0.035
Silicon:	
Heat analysis	0.15 to 0.40
Product analysis	0.13 to 0.45

^AApplies to both heat and product analyses.

TABLE 2 Tensile Requirements

	Grade A	Grade B
Tensile strength, ksi [MPa]	75-95 [515-655]	80-100 [550-690]
Yield strength, min, ^A ksi [MPa]:		
1 in. [25 mm] and under	42 [290]	47 [325]
Over 1 in. [25 mm]	40 [275]	45 [310]
Elongation in 8 in. [200 mm], min, % ^B	16	16
Elongation in 2 in. [50 mm], min, % ^B	19	19

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

^BSee the Elongation Requirement Adjustments subsection in the Tension Tests section of Specification A 20/A 20M.