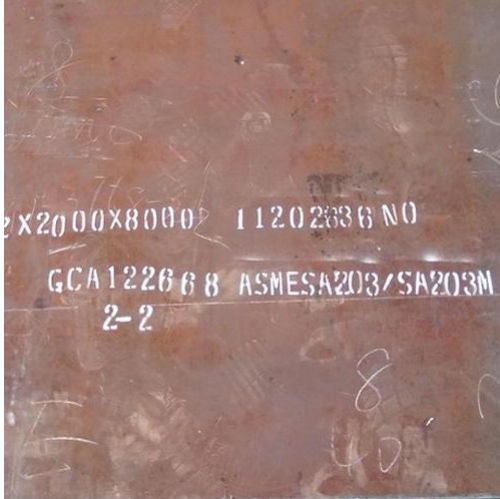


ASTM A203/A203M

ASTM A203/A203M Standard Specification for Pressure Vessel Plates, Alloy Steel, Nickel



ASME SA203 is a kind of Ni-alloy steel material used to fabric high-temperature pressure vessels. ASME SA203 this property is based on it's Ni composition. SA203 is used in fabricators serving industry, especially in the oil, gas and chemical supply markets. ASME SA203 has five grades or levels-- Grade A/B/D/E/F.

Specification of ASME SA-203/SA-203M

Standard: ASME SA-203/SA-203M
Grade: ASME SA203 Grade A, ASME SA203 Grade B, ASME SA203 Grade D, ASME SA203 Grade E, ASME SA203 Grade F
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)
Stock: Available
MTC: Available
Delivery condition: Grade A, B, D, E: Normalized
Grade F: Quenched and Tempered

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TABLE 1
CHEMICAL REQUIREMENTS

Elements	Composition, %			
	Grade A	Grade B	Grade D	Grades E and F
Carbon, max ^A :				
Up to 2 in. [50 mm] in thickness	0.17	0.21	0.17	0.20
Over 2 in. to 4 in. [100 mm] incl. in thickness	0.20	0.24	0.20	0.23
Over 4 in. [100 mm] in thickness	0.23	0.25
Manganese, max:				
Heat analysis:				
2 in. [50 mm] and under	0.70	0.70	0.70	0.70
Over 2 in. [50 mm]	0.80	0.80	0.80	0.80
Product analysis:				
2 in. [50 mm] and under	0.78	0.78	0.78	0.78
Over 2 in. [50 mm]	0.88	0.88	0.88	0.88
Phosphorus, max ^A	0.035	0.035	0.035	0.035
Sulfur, max ^A	0.035	0.035	0.035	0.035
Silicon:				
Heat analysis	0.15–0.40	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	0.13–0.45
Nickel:				
Heat analysis	2.10–2.50	2.10–2.50	3.25–3.75	3.25–3.75
Product analysis	2.03–2.57	2.03–2.57	3.18–3.82	3.18–3.82

^A Applies to both heat and product analyses.

TABLE 2
TENSILE REQUIREMENTS

	Grades A and D		Grades B and E		Grade F	
	ksi	[MPa]	ksi	[MPa]	ksi	[MPa]
Tensile strength						
2 in. [50 mm] and under	65–85	[450–585]	70–90	[485–620]	80–100	[550–690]
Over 2 in. [50 mm]	65–85	[450–585]	70–90	[485–620]	75–95	[515–655]
Yield strength, min						
2 in. [50 mm] and under	37	[255]	40	[275]	55	[380]
Over 2 in. [50 mm]	37	[255]	40	[275]	50	[345]
Elongation in 8 in. [200 mm] min, % ^A	19		17		...	
Elongation in 2 in. [50 mm] min, % ^{A,B}	23		21		20	

^A See Specification A20/A 20M for elongation adjustments.

^B See 7.1.1.

ASME SA203

ASME SA203 Grade A alloy steel plate

ASME SA203 Grade B steel sheet supplier

ASME SA203 Grade D material steel plate

ASME SA203 Grade E steel sheet price

ASME SA203 Grade F pressure vessels steel plate

ASTM A203 Grade A good quality steel plate

ASTM A203 Grade B steel plate supplier

ASTM A203 Grade D Ni-alloy steel

ASTM A203 Grade E steel plate application

ASTM A203 Grade F steel chemical composition

Can supply different steel grades of ASME SA203 and ASTM A203 steel plates, like SA203/A203 Grade A, SA203/A203 Grade B, SA203/A203 Grade D, SA203/A203 Grade E, SA203/A203 Grade F. If you need any grades of ASME SA203/ASTM A203 steel plates, please do not hesitate to contact us.

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