



SA-285 Steel Plates

Overview SA 285 Gr A, SA 285 Gr B & SA 285 Gr C

Applications for low / intermediate tensile strength requirements. SA-285 is designed for low pressure heaters, treaters, tanks and other low pressure PVQ applications.

Chemical Requirements

*Elements represented in percentage

Element Composition %	SA 285 Gr A	SA 285 Gr B	SA 285 Gr C
Carbon, max	0.17	0.22	0.28
Manganese, max			
Heat analysis	0.90	0.90	0.90
Product analysis	0.98	0.98	0.98
Phosphorus, max	0.025	0.025	0.025
Sulfur, max	0.025	0.025	0.025

Tensile Requirements

	SA 285 Gr A ksi(MPa)	SA 285 Gr B ksi (MPa)	SA 285 Gr C ksi (MPa)
Tensile strength	45-65 (310-450)	50-70 (345-485)	55-75 (380-515)
Yield strength, min	24 (165)	27 (185)	30 (205)
Elongation in 8 in. or (200 mm), min, %	27	25	23
Elongation in 2 in. or (50 mm), min, %	30	28	27