



ASTM A500 / A500M-13

ASTM A500 / A500M-13 covers cold-formed welded and seamless carbon steel round, square, rectangular or special shape structural tubing for welded, riveted or bolted construction of bridges and buildings, and for general structural purposes.

ASTM A500 / A500M-13

ASTM A252-10 covers nominal wall cylindrical steel pipe piles in which the steel cylinder acts as a permanent load-carrying member or as a shell to form cast-in-place concrete piles.

ASTM A500 - ASTM A252 COMPARISON

MECHANICAL PROPERTIES	ASTM A500		ASTM A252	
	GRADE B	GRADE C	GRADE 2	GRADE 3
Yield Strength	42,000 psi min	46,000 psi min	35,000 psi min	45,000 psi min
Tensile Strength	58,000 psi min	62,000 psi min	60,000 psi min	66,000 psi min
Elongation in 2"	23	21	25	20

CHEMICAL COMPOSITION	GRADE B	GRADE C	ALL GRADES
Carbon	.26 max	.23 max	N/A
Manganese	1.35 max	1.35 max	N/A
Phosphorus	.035 max	.035 max	.050 max
Sulphur	.035 max	.035 max	N/A
Silicon	N/A	N/A	N/A

O.D. SIZE	ALL GRADES	ALL GRADES
>1.9 - 2.5 incl.	±0.75%	±1%
>2.5 - 3.5 incl.	±0.75%	±1%
>3.5 - 5.5 incl.	±0.75%	±1%
>5.5	±0.75%	±1%
Wall Thickness	±10%	-12.5%
Weight	Not Specified	15.0% over or 5% under its theoretical weight
Straightness	1/8" x length (ft) ÷ 5	Not Specified