

ASTM A500 – ASTM A252 COMPARISON

	ASTM A500 / A500M-13		ASTM A252-10	
	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 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	
Rounds	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
	ASTM A500		ASTM A252	
	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	
	ASTM A500		ASTM A252	
O.D. Size	All Grades		All Grades	
>1.9 to 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 (in feet) ÷ 5		Not specified	

Nucor Tubular Products has 47 years of experience producing square and rectangular products to ASTM specifications. Our reputation for quality and an on-time delivery record second to none in the industry made us one of the premier tube suppliers in North America. That same dedication and commitment to producing only the finest tube products led to our introduction of rounds, at our Chicago Division, in 2008. Continuing to listen to customer feedback, we quickly grew this new product line into one of the most extensive and successful in the industry. NTP now manufactures rounds at four of our Divisions: Chicago and Marseilles, Illinois and Birmingham and Decatur, Alabama. Our size range extends from 1.66" OD through 16" OD. NTP has the capability to produce rounds to ASTM A500 and ASTM A252 specifications.



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