



HOT ROLLED ELECTRIC RESISTANCE WELDED (HREW) ROUND TUBING - ASTM A513 TYPE 1

Chemistry				
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):
1010	0.08/0.13	0.30/0.60	0.035	0.035
1020	0.18/0.23	0.30/0.60	0.035	0.035
Mechanical Properties (typical) for As-Welded Tubing				
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2" (min.):	RB (min.)
1010	32,000	45,000	15%	55
1020	38,000	52,000	12%	62

COLD ROLLED ELECTRIC RESISTANCE WELDED (CREW) ROUND TUBING - ASTM A513 TYPE 2

Chemistry				
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):
1008	0.10 max.	0.50 max.	0.035	0.035
1010	0.08/0.13	0.30/0.60	0.035	0.035
Mechanical Properties (typical) for As-Welded Tubing				
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2" (min.):	RB (min.)
1008	30,000	42,000	15%	50
1010	32,000	45,000	15%	55

All mechanical properties are typically not tested and reported, unless specified.

The information listed is correct to the best of our knowledge. Wisconsin Steel & Tube Corporation assumes no responsibility for errors or omissions. Wisconsin Steel & Tube Corporation publishes this for guidance of their customers and reserves the right to add or delete items without notification.



DRAWN OVER MANDREL (DOM) MECHANICAL TUBING - ASTM 513 TYPE 5

Chemistry				
Grade:	Carbon (max.):	Manganese (max.):	Phosphorus (max.):	Sulphur (max.):
1020	0.18/0.23	0.30/0.60	0.035	0.035
1026	0.22/0.28	0.60/0.90	0.035	0.035
Mechanical Properties for DOM Tubing (As Drawn)				
Grade:	Yield Strength (psi), (min.):	Tensile Strength (psi), (min.):	Elongation in 2" (min.):	RB (min.)
1020	60,000	70,000	5%	80
1026	70,000	80,000	5%	85
Mechanical Properties for DOM Tubing (Stress Relieved Annealed)				
Grade:	Yield Strength (psi), (min.):	Tensile Strength (psi), (min.):	Elongation in 2" (min.):	RB (min.)
1020	55,000	65,000	10%	75
1026	65,000	75,000	10%	80

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HOT FINISHED SEAMLESS ROUND TUBING - ASTM A519

Chemistry							
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):	Silicon:	Chromium:	Molybdenum:
1026 HR	0.22/0.28	0.60/0.90	0.040	0.050			
4140	0.38/0.43	0.75/1.00	0.040	0.040	0.15/0.35	0.80/1.10	0.15/0.25

Mechanical Properties (typical)				
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2":	RB:
1026 HR	40,000	70,000	22%	60
4140 ANN	60,000	80,000	25%	85

COLD DRAWN SEAMLESS ROUND TUBING - ASTM A519

Chemistry				
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):
1026	0.22/0.28	0.60/0.90	0.040	0.050

Mechanical Properties (typical)				
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2" (min.):	RB (min.)
1026	55,000	70,000	8%	75%

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