



**CARBON HOT ROLLED STEEL BARS - ASTM A576**

<b>Chemistry</b>					
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):	
1018	0.15/0.20	0.60/0.90	0.040	0.050	
1045	0.43/0.50	0.60/0.90	0.040	0.050	
1141	0.37/0.45	1.35/1.65	0.040	0.08/0.13	
<b>Mechanical Properties (typical)</b>					
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2":	Reduction of Area:	Brinell Hardness:
1018	32,000	58,000	25%	40%	116
1045	45,000	80,000	16%	40%	163
1141	51,000	94,000	15%	35%	187

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.



**CARBON HOT ROLLED STEEL - ASTM A36**

<b>Chemistry</b>						
Grade:	Carbon:	Manganese:	Phosphorus (max):	Sulphur (max.):	Silicon (max.):	Copper (min. when specified):
A36	0.072	0.60/0.90	0.040	0.050	0.15/0.40	0.200
<b>Mechanical Properties (typical)</b>						
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2":	Reduction of Area:	Brinell Hardness:	
A36	36,000	58,000/80,000	23%	40%	116	

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