

1141

51,000

CARBON HOT ROLLED STEEL BARS - ASTM A576 Chemistry Phosphorus (max.): Sulphur (max.): Grade: Carbon: Manganese: 0.15/0.20 0.60/0.90 0.040 0.050 1018 0.43/0.50 0.60/0.90 0.040 0.050 1045 1141 0.37/0.45 1.35/1.65 0.040 0.08/0.13 **Mechanical Properties (typical)** Yield Strength (psi): Tensile Strength (psi): Elongation in 2": Grade: Reduction of Area: Brinell Hardness: 1018 32,000 58,000 25% 40% 116 40% 1045 45,000 80,000 16% 163

15%

94,000

35%

187



CARBON HOT ROLLED STEEL - ASTM A36						
Chemistry						
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
Mechanical Properties (typical)						
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	