



ALLOY HOT ROLLED STEEL BARS - ASTM A322

Chemistry								
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):	Silicon (max.):	Nickel:	Chromium:	Molybdenum:
4140	0.38/0.43	0.75/1.00	0.035	0.040	0.15/0.35	0.40/0.70	0.40/0.60	0.15/0.25
8620	0.43/0.50	0.70/0.90	0.035	0.040	0.15/0.35			
Mechanical Properties, depends on the heat treat condition (typical)								
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2":	Reduction of Area:	Brinell Hardness:			
4140	54,000	64,000	15%	40%	126			
8620	77,000	91,000	12%	35%	179			

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