



ALLOY COLD FINISH STEEL BARS - ASTM A108

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Chemistry									
Grade:	Carbon:	Manganese:	Phosphorus (max.):	Sulphur (max.):	Silicon (max.):	Chromium:	Molybdenum:	Lead:	Nickel:
4140	0.38/0.43	0.75/1.00	0.035	0.040	0.15/0.35	0.80/1.10	0.15/0.25		
41L40	0.38/0.43	0.75/1.10	0.035	0.040	0.15/0.35	0.80/1.10	0.15/0.25	0.15/0.35	
8620	0.18/0.23	0.70/0.90	0.035	0.040	0.15/0.35	0.40/0.60	0.15/0.25		0.40/0.70
86L20	0.18/0.23	0.70/0.90	0.035	0.040	0.15/0.35	0.40/0.60	0.15/0.25	0.15/0.35	0.40/0.70
"e.t.d." 150®	0.40 (min.)	0.70/1.10			0.15/0.35	0.80/1.20	0.15/0.25		
Mechanical Properties (typical)									
Grade:	Yield Strength (psi):	Tensile Strength (psi):	Elongation in 2":	Brinell Hardness:	Reduction of Area:	Rockwell C Hardness			
4140	60,000	95,000	15%	187	45%				
41L40	85,000	105,000	15%	187					
8620	55,000	80,000	25%	156					
86L20	60,000/100,000	85,000/115,000	10-25%	170/230	30-50%				
"e.t.d." 150®	130,000	***150,000	10% (mean)	**302 (min.)	37% (mean)	**32 (min.)			
<p>* "e.t.d." 150® contains additives for improving machinability. These maybe Tellurium, Selenium, Sulphur (0.06 max.) or others, separately or in combination.</p> <p>**In the event of disagreement between hardness and tensile strength, the tensile strength shall govern.</p>									

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