

AK Steel ASTM A 1018, Grade 40 Hot Rolled Carbon Steel, Structural Steel (SS)

Category : Metal , Ferrous Metal , Carbon Steel , Low Carbon Steel

Material Notes:

Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-ASTM-A-1018-Grade-40-Hot-Rolled-Carbon-Steel-Structural-Steel-SS.php

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in ³	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 380 MPa	>= 55100 psi	
Tensile Strength, Yield	>= 279 MPa	>= 40500 psi	
Elongation at Break	>= 19 %	>= 19 %	
Modulus of Elasticity	200 GPa	29000 ksi	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 µm/m-°C	6.89 µin/in-°F	
	@Temperature 20.0 - 100 °C	@Temperature 68.0 - 212 °F	
Specific Heat Capacity	0.481 J/g-°C	0.115 BTU/lb-°F	
	@Temperature 50.0 - 100 °C	@Temperature 122 - 212 °F	
Thermal Conductivity	89.0 W/m-K	618 BTU-in/hr-ft ² -°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.000142 ohm-cm	0.000142 ohm-cm	
	@Temperature 20.0 °C	@Temperature 68.0 °F	

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