

AK Steel CL 1/ SAE J1392 045 XLK, Grade 45 Cold Rolled Carbon Steel, High Strength Low Alloy Steel (HSLAS)

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-CL-1-SAE-J1392-045-XLK-Grade-45-Cold-Rolled-Carbon-Steel-High-Strength-Low-Alloy-Steel-HSLAS.php

Physical Properties	Metric	English	Comments
Density	7.87 g/cc	0.284 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 415 MPa	>= 60200 psi	
Tensile Strength, Yield	>= 310 MPa	>= 45000 psi	
Elongation at Break	>= 22 %	>= 22 %	
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	6.89 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	
	@Temperature 20.0 - 100 $^\circ\text{C}$	@Temperature 68.0 - 212 $^\circ\text{F}$	
Specific Heat Capacity	0.481 J/g- $^\circ\text{C}$	0.115 BTU/lb- $^\circ\text{F}$	
	@Temperature 50.0 - 100 $^\circ\text{C}$	@Temperature 122 - 212 $^\circ\text{F}$	
Thermal Conductivity	89.0 W/m-K	618 BTU-in/hr-ft ² - $^\circ\text{F}$	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000142 ohm-cm	0.0000142 ohm-cm	

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