

AK Steel ASTM A 607 Class 2 Formable, Grade 45K Hot Rolled Carbon Steel, Medium/High Strength Low Alloy (HSLA)

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

Material Notes:

ASTM A 607 is for Hot Rolled and Cold Rolled grades. AK Steel produces Type 1 (columbium bearing only), Class 2 limits only C and has a 10 ksi difference between the minimum specified YS and UTS. AK Steel Formable Grade - K indicates killed. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-ASTM-A-607-Class-2-Formable-Grade-45K-Hot-Rolled-Carbon-Steel-MediumHigh-Strength-Low-Alloy-HSLA.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	>= 380 MPa	>= 55100 psi	
Tensile Strength, Yield	>= 310 MPa	>= 45000 psi	
Elongation at Break	>= 25 %	>= 25 %	
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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