

AK Steel ASTM A 424 Type III, I-F Enamel Enameling Carbon Steel

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

Material Notes:

I-F Enameling Steel is a vacuum degassed, titanium stabilized steel. I-F Enameling Steel can be used for ground coat and two coat-one fire porcelain enameling systems. It is not recommended for use in direct-on cover coat enameling systems. Because of its excellent formability, it is often used in the production of very difficult to form parts. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-ASTM-A-424-Type-III-I-F-Enamel-Enameling-Carbon-Steel.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	313 MPa	45400 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Tensile Strength, Yield	159 MPa	23100 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Elongation at Break	44 %	44 %	in 2 inches; ASTM A 370
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.9 $\mu\text{m}/\text{m}\cdot\text{C}$	7.17 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@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	93.0 W/m-K	645 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.050 %	0.050 %	
Carbon, C	0.0050 %	0.0050 %	
Copper, Cu	0.020 %	0.020 %	
Iron, Fe	99.565 %	99.565 %	As Remainder
Manganese, Mn	0.20 %	0.20 %	

Phosphorous P Component Elements Properties	0.010 % Metric	0.010 % English	Comments
Silicon, Si	0.010 %	0.010 %	
Sulfur, S	0.010 %	0.010 %	
Titanium, Ti	0.13 %	0.13 %	

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

Descriptive Properties	Value	Comments
Deep-Drawing Capability rm	1.7	.0275 - .035 inches sheet thickness
Strain Hardening Exponent n	0.23	.0275 - .035 inches sheet thickness

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