

AK Steel ASTM A 424 Type II, VIT-PLUS® DS Enameling Carbon Steel

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

Material Notes:

VIT-PLUS is a controlled chemistry, non-decarburized steel designed to replace certain types of ingot products. It has good strength after fire properties. It is not recommended for direct-on cover coat porcelain enamel applications. VIT-PLUS is free of fishscale regardless of the enamel. Information provided by AK Steel

Order this product through the following link:

http://www.lookpolymers.com/polymer_AK-Steel-ASTM-A-424-Type-II-VIT-PLUS-DS-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	311 MPa	45100 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Tensile Strength, Yield	198 MPa	28700 psi	.0275 - .035 inches sheet thickness; ASTM A 370
Elongation at Break	43 %	43 %	in 2 inches; ASTM A 370
Modulus of Elasticity	200 GPa	29000 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	12.4 $\mu\text{m}/\text{m}\cdot\text{C}$	6.89 $\mu\text{in}/\text{in}\cdot\text{F}$	
	@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	89.0 W/m-K	618 BTU-in/hr-ft ² -°F	

Component Elements Properties	Metric	English	Comments
Aluminum, Al	0.050 %	0.050 %	
Carbon, C	0.040 %	0.040 %	
Copper, Cu	0.020 %	0.020 %	
Iron, Fe	99.65 %	99.65 %	As Remainder
Manganese, Mn	0.21 %	0.21 %	

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

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

Descriptive Properties	Value	Comments
Deep-Drawing Capability rm	1.3	.0275 - .035 inches sheet thickness
Strain Hardening Exponent n	0.21	.0275 - .035 inches sheet thickness

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