



## **4778-X-50 PHENOLIC/ROSIN MODIFIED ALKYD RESIN**

**4778-X-50 PHENOLIC/ROSIN MODIFIED ALKYD RESIN** is a short oil, phenolic and rosin modified alkyd resin supplied at 50% non-volatile by weight. It is a rapid setting resin for use in lift resistant primers and fast drying industrial enamels. It can be used in the following government specification finishes: TT-P-64C, TT-E-515A, and MIL-E-15090C, Type II.

### **SOLUTION PROPERTIES:**

Non-volatile by weight	50 ± 1%
Non-volatile by volume	43 ± 1%
Weight per Gallon @ 25°C	8.27 ± 0.10 pounds
Viscosity @ 25°C	W – Y
Reduced Viscosity (40% non-volatile)	H – J
Color (Gardner)	12 maximum
Solvent	Xylene
Flash Point (SETA)	81°F
Appearance	Clear amber liquid

### **SOLID RESIN PROPERTIES:**

Phthalic Anhydride	Present
Oil Type	Linseed/Tung
Oil Length	Short
Acid Number	32 maximum
Modifiers	Phenolic Resin; Rosin

### **DRIER RECOMMENDATION (% METAL BASED ON RESIN SOLIDS):**

0.04	-	0.08% Cobalt
0.1	-	0.3% Zirconium

---

While the information contained herein is deemed accurate, it is intended as a guide only and property values and ranges listed above should be regarded as typical values and should not be construed either as a product specification or as a guaranteed analysis for any specific lot of the product. All guarantees/warranties and other terms existing are exclusively contained in the Company's invoices and are effective only upon purchase of products.

---

ROUTE 993 ■ P. O. BOX 607 ■ MANOR, PA 15665 ■ (724) 864-8200 ■ FAX (724) 864-8232

## **4778-X-50 PHENOLIC/ROSIN MODIFIED ALKYD RESIN**

**Page 2**

**FILM PROPERTIES<sup>1</sup>:**

Adhesion to Steel (crosscut adhesion test)	Excellent
Knife Test (Method 6304, Fed. Std. 141B)	Pass
Water Immersion at Room Temperature:	
after 90 minutes (1-1/2 hrs.)	No effect
after 180 minutes (3 hrs.)	Slight softening and whitening
After 8 hours	softening and whitening increased; no blisters; no under film corrosion
Gasoline Resistance at Room Temperature:	
after 30 minutes	No effect
after 90 minutes	Slight surface wrinkling; film has softened
Humidity Resistance:	
100% relative humidity @ 65°C for 12 days	Few scattered blisters; no under film corrosion

<sup>1</sup> – MIL-E-15090C, Type II, Class 2, semi-gloss gray enamel, Cure: 7 days at room temperature, Substrate: Steel Q-panel, Dry Film Thickness 1.0 mil

11/21/96

---

While the information contained herein is deemed accurate, it is intended as a guide only and property values and ranges listed above should be regarded as typical values and should not be construed either as a product specification or as a guaranteed analysis for any specific lot of the product. All guarantees/warranties and other terms existing are exclusively contained in the Company's invoices and are effective only upon purchase of products.

---

ROUTE 993 ■ P. O. BOX 607 ■ MANOR, PA 15665 ■ (724) 864-8200 ■ FAX (724) 864-8232