

# COATINGS

## Red Insulating Varnish

**FEATURES:**

- Alkyd-based compound
- Resistant to environmental extremes including oils, water and most acids and alkalis
- Retains its high dielectric strength even if wet
- May be operated in a very humid climate and up to 250°F (121°C)
- For general insulation of coils, transformers, motor windings and for all-around protection against oxidation and atmospheric attack
- Dielectric Strength - Wet 1,500 volts/mil
- Dielectric Strength - Dry: 3,000 volts/mil
- Recommended Thinner 22-209, Xylol or Toluene
- Hard Dry Time: (4 - 8) Hours
- 12 Month Shelf Life

**PART No:** **10-9002-A****Product Details:**

<b>PART No.</b>	<b>DESCRIPTION</b>	<b>TYPE</b>	<b>SIZE</b>
<b>10-9002-A</b>	RED INSULATING VARNISH	BOTTLE W/BRUSH	2 FL. OZ.
<b>10-9008-A</b>	RED INSULATING VARNISH	BOTTLE	8 FL. OZ.



UPC: 010151155047

HTS: 3209.90.0000 [3907.50.0000](#)

Country of Origin: USA



**RoHS II  
CERTIFICATE OF COMPLIANCE**

**PART NUMBER:** 10-9002-A

**PRODUCT:** COATING RED INSULATING VARNISH 2 OZ

**SPECIFICATIONS:** *“Always EU RoHS II/ELV Compliant”*

**COUNTRY OF ORIGIN:** UNITED STATES

*EU RoHS II status is declared per Directive 2011/65/EU and its subsequent amendments. Therefore, based on the manufacturer's provided data, it is certified that the above part listed is RoHS II Compliant.*

**DATE:** 08/27/2015

  
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**SIGNED BY:** Dan Heinen  
Quality Manager

**UNCONTROLLED**

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**UNCONTROLLED****PRODUCT SPECIFICATION SHEET**

<b>PART NO.</b>	<b>PRODUCT NAME</b>	
<b>10-9002-A</b>	<b>Red Insulating Varnish, 2 ounce bottle</b>	
<b>10-9008-A</b>	<b>Red Insulating Varnish, 8 ounce bottle</b>	Replaced 10-9002 & 10-9008 in 2009

**DESCRIPTION:****RED INSULATING VARNISH****DESCRIPTION:**

Red Insulating Varnish is a modified alkyd insulating enamel formulated with a non-conductive pigment which makes it suitable for the dual function as an insulating varnish in Class F systems, as well as a finish coat.

It cures to a smooth, glossy film possessing the following properties

**FEATURES**

- Class F Thermal Protection (20,000 hours @ 150°C)
- Tough, Flexible Glossy Finish
- Excellent Adhesion & High Dielectric Strength
- High Gloss Sheds Dirt & Facilitates Cleaning

**TYPICAL PROPERTIES**

Type	Modified Alkyd
Color	Red
60° Gloss	80+
Thinner	Xylol
Weight per Gallon	8.84 ± 0.2 Lbs.
Cure Schedule @ 25°C @ 50% relative humidity	Air dry 10-20 Minutes Tack Free
Viscosity @ 25°C	40-55 Seconds, Zahn #3
Non-Volatile by Weight	51.8 ± 2.0%
Non-Volatile by Volume	40.8 ± 2.0%
Coverage (Sq Ft/Mil/Gal)	655 Square Feet
Volatile Organic Components	4.28 Lbs/Gal.
Dielectric Strength - Dry	3000 volts/mil
Dielectric Strength - Wet	1500 volts/mil
Apply By	Dip or Spray
Oil Submersion Test (110°C, 72 hrs., non-detergent oil)	No change
Pencil Hardness	HB
Mandrel ½ inch	No cracking
Mandrel ¼ inch	No cracking
Shelf Life	One (1) year

**RECOMMENDED APPLICATIONS**

Recommended particularly for the treatment of small dry type transformers, certain types of control coils, etc. where the dual features of the material can be utilized.



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USE: It may be applied by brush, dip, or spray. The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty or merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

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## PRODUCT SPECIFICATIONS SHEET

**CAT NO.      PRODUCT NAME**

~~10-9002~~      Red Insulating Varnish  
~~10-9008~~

**DESCRIPTION:**

Red Insulating Varnish is a general purpose, high gloss, air drying enamel recommended for use as a finish coat to Class 155 winding or electrical apparatus. It is designed for the protection and sealing of insulated surfaces against deterioration by exposure to the corrosion action of oils, moisture, acids and alkali. It is manufactured using special resins and processing techniques in pigment dispersion, producing an Insulator requiring Little Stirring even after long periods of storage.

If desired, it may also be cured @ 250 - 275° F to speed up drying time.

It cures to a smooth, glossy film possessing the following properties:

EXCELLENT FLEXIBILITY  
GOOD DIELECTRIC STRENGTH  
EXCELLENT CHEMICAL AND MOISTURE RESISTANCE  
EXCELLENT ADHESION

**TYPICAL PROPERTIES:**

Color	Red
Gloss	High
Weight Per Gallon	8.7 to 9.0 Pounds
Viscosity @ 25°C	65 – 85 sec.
Dry Time @ 25°C	
Set	30 minutes
Dry to touch	60 minutes
Hard Dry	4 – 8 hours
Hard Dry @ 135°C	30 minutes
Dielectric Strength	
Dry	Over 1700 volts/mil.
Wet	Over 1300 volts/mil.
Adhesion to Metal	Very Good
Oil Resistance	Good
Recommended Thinner	Xylol

## UNCONTROLLED

2009

**Discontinued**

USE: The product is recommended for use as a finish coat on:

COMMUTATOR ENDS, FIELD WINDINGS, MOTOR CASE INTERIORS, COLLECTOR RINGS AND SHELLS, STATOR END TURNS OR SIMILAR APPLICATIONS.

It may be applied by brush, dip, or spray.

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty or merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials and in no event shall we be liable for special, incidental or consequential damages.

SHELF LIFE, CLOSED CONTAINERS:

~~30 Months~~

10-9002-A

10-9008-A

have only 12 Months