

CORONA-Clear™
resins
CORONA-Protect®
resins

Electrical Protection with Corrosion Resistance

CORONA-Protect[®]

resins

CORONA-Clear[™]

resins

Perfect for Motors, Transformers and Motor Repair

Product Summary

ELANTAS PDG, Inc. continues the tradition of innovation by providing high performance electrical insulation with **CORONA-Clear[™]** and **CORONA-Protect[®]**.

CORONA-Clear[™] is a superior magnet wire coating designed for use in inverter grade magnet wire.

The **CORONA-Protect[®]** series of impregnating resins is designed to provide environmental and electrical protection in all types of electrical apparatus. The series includes products suitable for both motor and transformer applications.

The combination of **CORONA-Clear[™]** & **CORONA-Protect[®]** provides a system that offers outstanding performance and protection in electrically demanding environments such as inverter drive motors.



CORONA-Protect[®]

resins

- Good Moisture Resistance
- Good Bond Strength
- High Film Build
- Improved corona resistance
- UL Class 240

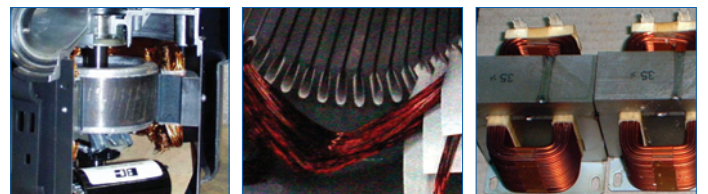


Protection When You Need It

CORONA-Protect[®] resins are included in UL recognized insulation systems.

Application Methods

- Dip and Bake
- Trickle
- VPI (Vacuum Pressure Impregnation)



CORONA-Clear[™]

resins

- Excellent flexibility on wire
- Enhanced corona resistance

For More Information Ask For Our Technical Data Sheet

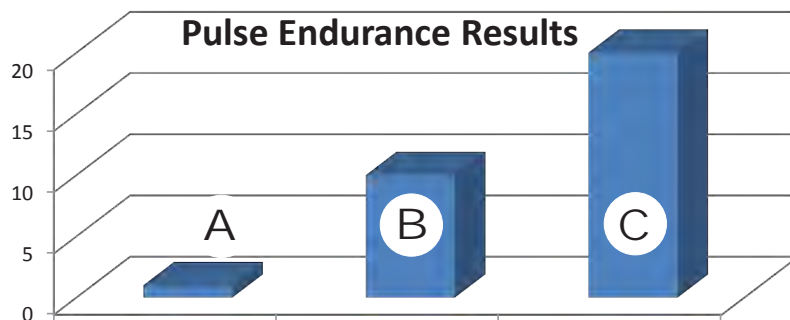
CORONA – Clear™

WIRE TESTING RESULTS – ELANTAS PDG, Inc.

| WIRE CONSTRUCTION | | | |
|---------------------------|-----------------------|-------------------------------------|-----------------|
| | | NEMA MW 35-C Specification | Typical MW35 |
| Basecoat | Corona Clear® 3737-37 | Modified Polyester or Polyete-imide | Theic Polyester |
| Overcoat | Tritherm® A 981 | Amide-imide | Amide-imide |
| American Wire Gauge | AWG 18 | AWG 18 | AWG 18 |
| Bare Wire Diameter (inch) | 0.0402 | 0.0403 | 0.0403 |
| Film Build (inch) | 0.0030 | 0.0026, minimum | 0.0031 |

| ELECTRICAL PROPERTIES | NEMA MW 1000 | | | |
|---|--------------|----------------|-----------------|--------------|
| Dielectric Strength at 25°C | 3.8.1.1 | 12.5 kV | 5.7 kV, minimum | 10.6 kV |
| Tangent Delta | | 164°C/252°C | NA | 155°C |
| Pulse Endurance (±1000V, 150°C, 20 kHz) | EPDG Method | > 6100 minutes | NA | < 10 minutes |

| MECHANICAL PROPERTIES | | | | |
|--|--------------------|--------------------|----------------|--------------------|
| Adherence and Flexibility No Snap 20% Snap | 3.3.1.1 3.3.1.1 | Pass 1d Pass 1d | NA Pass 3d | Pass 1d Pass 1d |
| Percent Elongation at Break | 3.4.1.1 | 42% | 32%, minimum | 38% |
| Mandrel at Break | 3.4.1.1 | Pass 3d | NA | Pass 2d |
| Cut-Through Temperature | 3.50.1.1 | 389°C | 300°C, minimum | 390°C |
| Heat Shock 20% Stretch - 30 m @ 220°C | 3.5.1.1 | Pass 3d | Pass 3d | Pass 3d |



- A** Traditional Wire Coating
- B** CORONA-Clear™
- C** CORONA-Clear™
and
CORONA-Protect®

ELANTAS PDG, Inc.

ELANTAS Electrical Insulation

Around the world, ELANTAS Electrical Insulation companies are respected as market leaders in the development and manufacturing of impregnating resins (varnishes), wire enamel, potting compounds and casting resins for a number of electrical, industrial, aerospace and civil applications. No matter what your challenge, be assured that ELANTAS Electrical Insulation products will meet your most demanding needs.

ELANTAS PDG, Inc.

Today, ELANTAS PDG, Inc. is recognized as the premier global supplier of specialty polymers for the electrical and electronic industries. ELANTAS PDG, Inc. is a member of ALTANA's ELANTAS Electrical Insulation Division based in Wesel, Germany.

With the support of ALTANA and by working with other ALTANA divisions, we offer a unique global approach to research, manufacturing and service that translates into more creative solutions, dependable supply and consistently high quality.

Many ELANTAS PDG, Inc. products are recognized as components of electrical insulation systems in accordance with UL 1446. ELANTAS PDG, Inc. is registered to ISO 9001:2000 and ISO/TS 16949:2002- Second Edition.

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A member of  **ALTANA**



ELANTAS PDG, Inc. headquarters in St. Louis, Missouri

ELANTAS Electrical Insulation companies are strategically located throughout the world to meet the primary insulation, secondary insulation and electronic and engineering materials needs of our customers.

AMERICAS

ELANTAS PDG, Inc.
ELANTAS Isolantes,
Electricos do Brasil

ASIA

ELANTAS Beck India
ELANTAS Tongling
ELANTAS Zhuhai

EUROPE

ELANTAS Beck
ELANTAS Italia

 **ELANTAS**
Electrical Insulation