



# Wind Power Generation

Liquid Electrical Insulation Resin Solutions

# Wind Power Generation

The AWEA recently reported the total wind power capacity in the USA exceeded 31,100 MW. The growth of the wind generator market will lead to new opportunities for the repair, service, and maintenance of the generators.

In the past decade, the Wind Generation Industry transformed through a series of advancements, resulting in a need for the use of resin technology particularly VPI experience.

## Product Summary

EpoxyLite®, Pedigree®, RanVar™, and Sterling® insulating resins are perfect for keeping your wind generators in top-performance condition day after day.

**EpoxyLite®** is used in over coating and impregnation of armatures, stators and coils in medium voltage motors and generators.

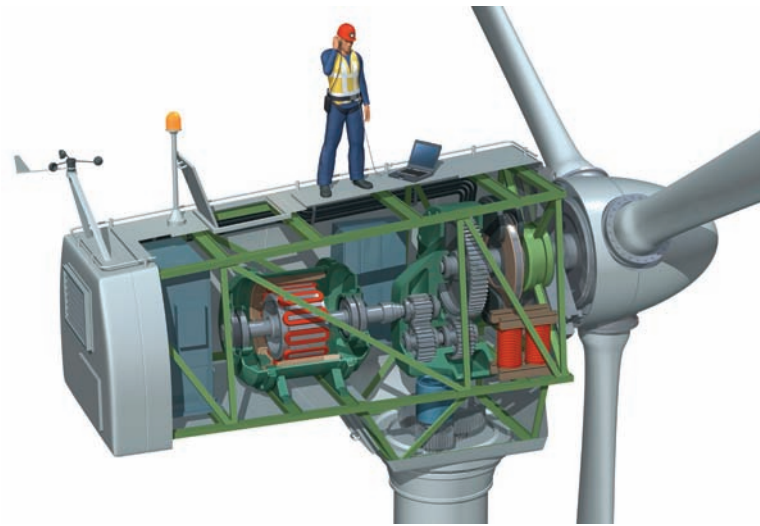
**Pedigree®** is a superior choice for impregnation of stators with long field service history.

**RanVar™** provides outstanding moisture and chemical resistance in small and large motors (including high voltage motors).

**Sterling®** has excellent stability and has long field history under demanding conditions. Used in the impregnation of small and larger stators.

ELANTAS PDG, Inc. is a team of professionals with access to the latest international research developments and technical advancements in the production of high quality electrical insulation products.

You can count on EPDG's liquid insulation products to produce a sealed system with long term reliability.



## Solutions For

- Excessive Vibration
- Turn to Turn Failure
- Environmental Hazards
- Thermal Shock
- End-Turn Movement
- Loose Coils
- Thermal Conductivity
- Partial Discharge
- Corona

## Application Methods

VPI • Dip and Bake  
Trickle / Brush



## Product Characteristics at a Glance

	Description	Application Method	Use	Viscosity	Bond Strength lbs @ 25°C	Monomer
<b>EPOXY</b> EpoxyLite® E 478 Thixo	A heat curing system for use with uncatalyzed tapes. Designed for use in medium voltage motors and generators. Also available in a Low Viscosity (LV) version.	VPI	Impregnation	1500-4500	73	No
<b>EPOXY- TWO COMPONENT</b> EpoxyLite® E 234 Resin EpoxyLite® C 234 Hardner	Room temperature, fast curing, two component system used in overcoating and impregnation of armatures, stators, and coils.	Trickle / Brush	Overcoat End Turns	1200-1600	25	No
<b>UNSATURATED POLYESTER</b> Pedigree® 433-75 VTC	An unsaturated polyester resin in vinyl toluene, an excellent choice for impregnation of stators with long field service history.	VPI	Impregnation	600-900	47	Yes
<b>COPOLYMER</b> RanVar™ R2003 VTC	An unsaturated polymer resin in vinyl toluene. It exhibits excellent moisture and chemical resistance. Used in Impregnation of small and large motors including high voltage.	VPI	Impregnation	400-800	23	Yes
<b>POLYBUTADIENE</b> Sterling® PB 302-LV-2	Polybutadiene resin in vinyl toluene. It has excellent stability and an excellent field history under demanding conditions. Used in the impregnation of small and large stators.	Dip and Bake VPI	Impregnation	300-600	14	Yes

For More Information Ask For Our Technical Data Sheets.



# 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.

## ELANTAS PDG, Inc.

5200 North Second Street  
St. Louis, MO 63147 USA

**Tel 314.621.5700**

**Fax 314.436.1030**

info.elantas.pdg@altana.com  
www.elantas.com

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 Camattini  
ELANTAS Deatech  
ELANTAS UK

 **ELANTAS**  
Electrical Insulation