

# Constant Voltage Transformers

## Liquid Electrical Insulation Resin Solutions

## Constant Voltage Transformers

Constant voltage transformers produce a consistent output voltage despite varying input current or varying load.

The load could be anything that needs a regulated power source, whether it be personal electronics or office equipment.

### Product Summary

Pedigree®, Ripley™, RanVar™, Isonel® and ELAN-Guard® and insulating resins are perfect for keeping your constant voltage transformers in top performance condition day after day.

**Pedigree®** resins offer a long field service history in constant voltage transformers.

**Ripley™** resins are epoxy-based materials with a long field service history in constant voltage transformers.

**RanVar™** resins provide outstanding moisture and chemical resistance in constant voltage transformers.

**Isonel®** resins are longstanding industry standards for use in transformer applications.

**ELAN-Guard®** resins are environmentally friendly epoxy emulsions with excellent bond strength.

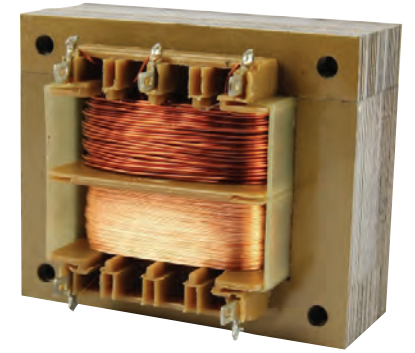


### Solutions For

- **UL Recognition**
- **Noise Reduction**
- **High Temperature Stress**
- **Thermal Conductivity**

## Application Methods

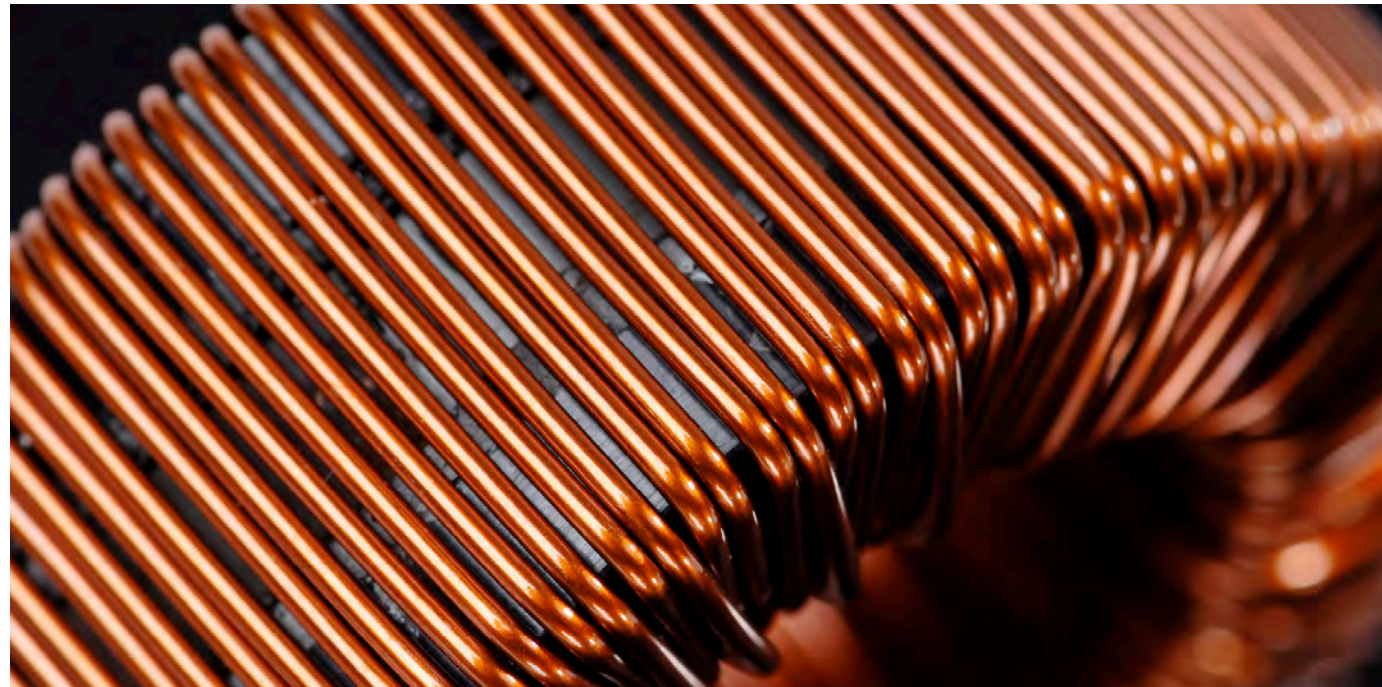
- **VPI**
- **Dip and Bake**



### Product Characteristics at a Glance

Product	Unique Characteristics	Thermal Class MW35 Twisted Pair	Viscosity (cP) @ 25°C/77°F	Voltage			Application Method	
				High	Medium	Low	VPI	Dip & Bake
Pedigree® 50 VTC	An unsaturated polyester resin in vinyl toluene. It is an excellent choice for impregnation of small and large transformers. It is flexible which assists in noise dampening. Has excellent high temperature resistance. Can be filled.	180	150 - 250	✓	✓	✓	✓	✓
Ripley™ E 468-2	A single component heat curing epoxy resin. It is the industry standard for the impregnation of all types of transformers. An extremely flexible resin system that has excellent noise dampening characteristics and a high flash point.	180	300 - 500	✓	✓	✓	✓	✓
RanVar™ B7-373 VT RanVar™ B7-373 VTC	A semi-rigid, unsaturated polyester resin in vinyl toluene. Excellent penetration capability. Good film build for a single dip. Low dissipation factor at elevated temperatures. Excellent chemical and moisture resistance. Available in two-component or single-component pre-catalyzed versions. Included in multiple UL recognized insulation systems	180	900 - 1200	✓	✓	✓	✓	✓
Pedigree® 70 VTC	An unsaturated polyester resin in vinyl toluene. It is a highly versatile, resilient resin. Included in multiple UL recognized insulation systems.	180	275 - 450 150 - 200	✓	✓	✓	✓	✓
RanVar™ B277	A styrenated alkyd air-drying or baking varnish. Available in clear or black with fast drying characteristics. Excellent moisture and humidity resistance. Included in multiple UL recognized insulation systems.	180	400 - 800			✓		✓
Isonel® 31-398	A general purpose, modified polyester varnish. Has low viscosity and offers excellent stability. Included in multiple UL recognized insulation systems.	180	250 - 350		✓	✓		✓
ELAN-Guard® EM 59 MR Series	An epoxy emulsion resin with excellent resistance to all types of refrigerants. Offers low viscosity and high stability. Can be thinned with water and has zero VOC. Included in multiple UL recognized insulation systems.	180	10 - 200			✓		✓

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 and ISO/TS 16949.

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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

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