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**Flexible Electrical Insulation** An innovative concept for the world of electrical insulation





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# "We Use Our Know-How to Continually Advance Our **Product Portfolio.**"

my focus is on the technological advancement of electrical insulation solutions. Within ELANTAS, we **advance in our product portfolio.** are consistently drawing upon our own technical customers to produce energy efficient, more reliable and safer products.

With its historical background in electrical insu- Our aim is to provide you with a solution that the area of wire enamels and impregnating resins has now enabled us to deliver innovation in the area of Flexible Electrical Insulation.

As a chemist and divisional manager at ELANTAS, **Our entry into the field of Flexible Electrical** Insulation represents a major evolutionary

expertise. This generates solutions that enable our I am therefore extremely pleased to be able to introduce a new ELANTAS product line for your needs and applications.

lation, ELANTAS has long since established itself delivers extended service life and enhanced safety as the acknowledged benchmark for quality and for your electrical machines - ELANTAS empowering technology. As such, our extensive knowledge in you to use our competence in a more flexible style.

Dr. Guido Forstbach Division President ELANTAS GmbH

# **ELANTAS** A Thirst for Knowledge Backed by a World-Renowned Chemical Enterprise



As an autonomous unit of the ALTANA Group with its own global network of research laboratories, ELANTAS is a preferred partner for many organisations for market-ready and holistic solutions. The personal commitment of all our employees, enables ELANTAS to maximize its customer's portfolios through sophisticated innovations that add true value.

ELANTAS companies are strategically located around the globe to meet the needs of their customers. In all parts of the world, ELANTAS Electrical Insulation is respected as a market leader in the development and manufacture of impregnating resins, varnishes,

wire enamels, potting compounds they function so reliably. A low failure and casting resins for electrical, elec- rate reflects positively on their quality, tronic, industrial, aerospace and civil starting with a well-specified electrical applications.

#### **Electrical insulation – proven** in practice

Computers and television sets, espresso **ELANTAS – the partner of choice for** machines and drills, windshield wipers and water pumps - our world is full of technology that makes many aspects of • Electrical insulation specialist everyday life easier.

Electrical devices often contain a • System-based component offerings number of components such as • Research & development-driven motors, transformers and electronics, which we do not even notice because

insulation system. Products made by ELANTAS contribute to the safety, reliability, and long life of such devices.

## technical solutions

- Technology leader
- Globally located for local service
- Reliable solutions





# **Flexible Electrical Insulation Innovation Technology**

Excellent insulation material performance is critical wherever electrical try. Depending on the application, the ing a compatible resin system. requirements for the insulation material can vary greatly.

circuits is always a key consideration. Electrical faults can be caused by many factors including application conditions, electrical and thermal stress and even poor product design. In such circumstances, to prevent failure, insulation materials must have excellent electrical and mechanical properties and yet be sufficiently flexible and du- ELANTAS offers an uncompromising rable to withstand the rigours of the manufacturing process and extended operating conditions.

A wire enamel coating protects individual wires from short circuiting. Flexible Electrical Insulation layers protect in-

sulated wires from coming into contact Flexible Electrical Insulation with steel cores, hold wires in place, components have to operate and it is and provide a phase-to-phase barrier. even more so under extreme conditions. To protect the conductor and insulation This applies whether the insulation ma-structure against mechanical, electrical, terial is used in motors, generators, environmental and thermal stress, the • Dry type transformers transformers or the electronics indus- whole winding is then consolidated us- • Electronics industry

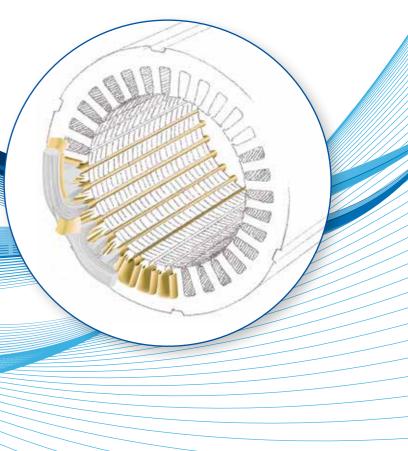
ELANTAS has used its chemical expertise to develop an advanced flexible insula-During the design of electrical equip- tion in the form of its proprietary proment the prevention of electrical short duct innovation ELAN-Film®. In the face of continually increasing demands on the performance of electrical machines, ELANTAS is bringing to market an innovative solution for flexible electrical insulation applications, with the quality and performance you expect from us.

> selection of insulation components designed to ensure superior reliability, efficiency, and performance of electrical equipment.



## material applications:

- AC motors
- DC motors
- Generators



# **ELAN-Film**<sup>®</sup> **Developed with Vision Deployed without Compromise**

ELANTAS is dedicated to developing the application possibilities of electrical insulation materials even further.

include new, superior Flexible Electrical Insulation materials, which ELANTAS can now offer as an optional overall insulation system solution.

We understand your application requirements precisely and can satisfy them with our tailored solutions.

### A totally new flexible electrical insulation concept

Using our own specially-developed advanced layer technology, our innovative **ELAN-***Film***®** products precisely serve today's market needs in the low-voltage segment. Working together, with our customers, we are laying the groundwork for a new generation in Flexible Electrical Insulation.

### PAI competence points the way

Withstanding extreme constant stresses - mechanical, thermal, chemical and electrical - is a fundamental

prerequisite that every insulation material must meet. However, when it comes to Flexible Elec-ELAN-Film® expands the ELANTAS range of products to trical Insulation, ELANTAS goes beyond that and utilises its extensive knowledge in applications and its patented foundation for polyamideimide wire enamels to develop an entirely new technology: advanced PAI layer technology.

#### We're not about compromise. We're about:

- Overall custom solutions that extend service life
- Technically derived, new generation of electrical insulation materials
- Advanced PAI layer technology
- Flexible Electrical Insulation

Our declared aim is to focus on the uncompromising safety and long service life of your electrical machines both today and tomorrow.



ELAN-Film®