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Rely on energy. Durable.



ENERGY HIGH VOLTAGE, LOW VOLTAGE & TRANSFORMERS

ENERGY IN EVERY ASPECT

High Voltage, Low Voltage & Transformers

High-quality insulating materials are crucial for the reliability of functions and absolutely safe operation of generators, motors, transformers, coils and electronic components.

For many years ISOVOLTA has gained experience and technical expertise in its field, being able to adapt its products to its customer's specific applications and individual

requirements. A worldwide network of production and distribution sites guarantees internationally uniform quality standards and a good supply service.

Analytical measurements, followed by application technology and testing according to industrial norms ensure that ISOVOLTA insulation systems function reliably for decades.

EFFICIENT AND RELIABLE

Generators

Electrical power generation is not possible without insulation. Therefore, dependable insulation systems of quality are a prerequisite for the success. ISOVOLTA offers the insulation materials that make it possible.

Wind power

The main challenge in wind power facilities is the sharp increase of the electrical performance. Furthermore, the difficult access for maintenance makes high demands on the durability of their insulation systems. ISOVOLTA has developed special insulating materials for generators to assure safety, stability, and longevity and maintenance free performance.

Motors and drives

Despite extremely high operating temperatures, standard and special motors, drives and traction motors must always operate reliably. ISOVOLTA has over six decades of experience in production and development of the electric insulation systems especially for these applications.



INVISIBLE TOP PERFORMANCE FOR EVERYDAY LIFE

High-performance insulation for high-performance generators and motors

Today's ongoing miniaturization is a growing challenge for modern motors. There is a need to become ever smaller and more powerful, and still need to continue to function perfectly when faced with heavy demands. ISOVOLTA offers flexible laminates and system products for electric insulation in the medium and low-voltage range.



Insulation: from power transformers to halogen lamps

Transformers are some of the most important components in electrical engineering. Their applications are highly varied, and so are their types and classes. Thanks to its knowledge with the specific requirements in the electric industry, ISOVOLTA is able to cover the entire spectrum of applications. ISOVOLTA supplies insulation materials for all types of transformers, coils and halogen lamps.



Solutions for new dimensions

In response to ever increasing demand on the performance of its materials ISOVOLTA is continually improving and adapting its technological solutions. ISOVOLTA opens trendsetting perspectives for state-of-the-art and future applications.

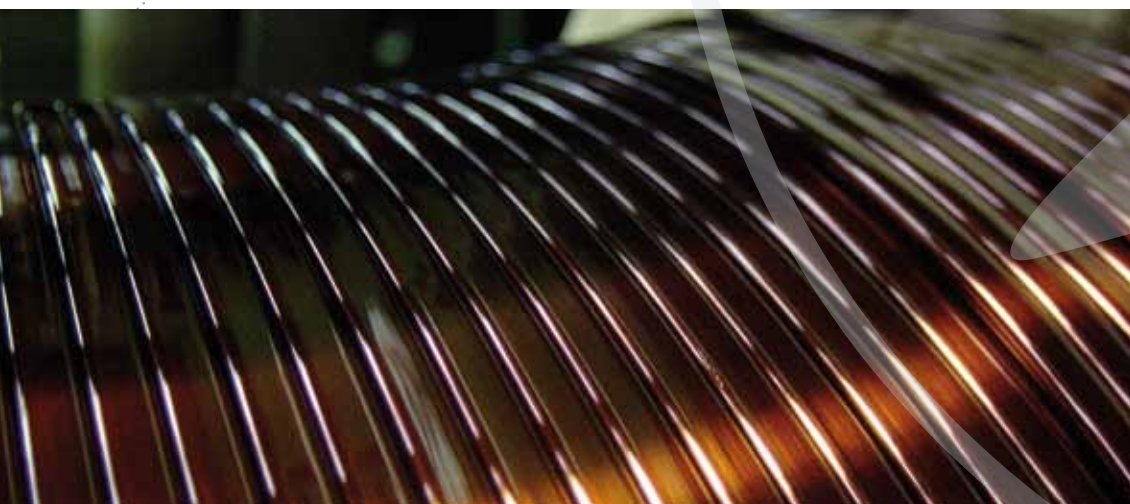
Insulation systems in the medium and low voltage range

TRANSFORMING ENERGY

Insulating materials

In the transmission of electrical energy from the power station to the consumer, transformers play an important role: their ability to convert voltages makes it possible to transmit currents over long distances, and means that they reach the place where the energy is needed without major losses.

ISOVOLTA offers the full range of insulation for any kind of transformer: materials for cast resin trafos (CRT), oil-filled distribution - and power- transformers and products for silicon-filled high temperature trafos.



THE BEST RAW MATERIALS AND COMPREHENSIVE PROCESS EXPERIENCE

A guarantee of the high quality of its products

Quality from the very start

ISOVOLTA uses only tested high-quality raw materials. Carrier materials such as mica paper, aramid paper, polyester and polyimide films, polyester fleece, glass fabrics and many others are combined with various resin systems according to the customer's requirements, forming a wide variety of products with specially tuned properties. ISOVOLTA's own resin plant and a team of specialists allow it to use only suitable resin and adhesive systems.

Competencies in production

ISOVOLTA's competencies in the field of impregnation, coating, laminating, processing and chemical formulations of adhesives and varnishes enable the manufacturing of products according to ISOVOLTA's customers' specific applications and requirements. The impregnation and coating of fabrics, fleeces, papers and films with various resin systems is among the core competencies of ISOVOLTA. In addition to preregs, which can be used e.g. in transformers, it also produces fully cured insulating materials.

Laminating

The combination of different raw materials and hence combination of defined properties into a highly durable, flexible laminate is another ISOVOLTA's core competence. In order to maintain the uniform high quality of its products worldwide ISOVOLTA uses computer-controlled processing, permanent process data recording and process visualization to ensure the highest production reliability.

Processing

ISOVOLTA supplies its products not only in rolls but also cut into various formats and sizes. Cutting, punching, folding, stamping and feathering by means of hot or cold forming, finish the laminates into the exact shape its customers need.

Chemistry

ISOVOLTA keeps developing its processes in order to meet customers' future requirements. It drives the constant improvement and extension of its expertise in the field of synthesizing and formulating resins and varnishes for electric insulation as one of the essential aspects in this development.



Creating an unique advantage through partnership, innovation and service

COMMITMENT TO ISOVOLTA'S CUSTOMERS

ISOVOLTA is worldwide DuPont® Nomex® partner

Our top priority is to support customers competently and reliably. Therefore, in addition to our own products ISOVOLTA offers those made by reputable and successful partners. ISOVOLTA is the leading DuPont™ Nomex® distributor across the whole of Europe, America, Asia, Africa and the Near and Middle East. Furthermore DuPont™ Kapton® is also distributed within Europe. ISOVOLTA has been and will continue to be an authorized qualified laminator of Nomex® at its production sites in Europe, Asia and America. This is an unique international partnership, that guarantees ISOVOLTA customers the availability of the products that best meet their requirements on site.

Focused on innovative power

A highly modern laboratory, a young and motivated team, optimized processes and close partnership and cooperation with our customers and suppliers are the foundations for ISOVOLTA's strongly application oriented innovative strength.

Reliable and always on its customers' side

Thanks to our numerous production and distribution sites in Europe, Asia, North and South America, customers of ISOVOLTA can rely on support wherever our customers may be. This network ensures that global players can obtain products of uniformly high quality all over the world.

Testing, training and advice

In well-equipped and state-of-the-art labs we perform any kind of material- and electrical system-test. We offer these services also to our customers and partners. ISOVOLTA customers' employees can attend individual training sessions that take place regularly at the competence centre in Austria, to receive information about current technical developments.

ISOVOLTA will be happy to offer advice for specific inquiries.



CONTACT

www.isovolta.com



Headquarters

ISOVOLTA AG
IZ, NÖ – Süd, Strasse 3
2355 Wiener Neudorf
Austria
T: +43 5 9595 0
F: +43 5 9595 9050
headquarters@isovolta.com

Energy

Sales Service
T: +43 5 9595 9466
F: +43 5 9595 9477
energy@isovolta.com

ISOVOLTA Group production and distribution sites

AUSTRIA

ISOVOLTA AG
Plant Wr. Neudorf
IZ, NÖ – Süd, Strasse 3
2355 Wiener Neudorf
Austria
T: +43 5 9595 0
F: +43 5 9595 9050
headquarters@isovolta.com

ISOVOLTA AG

Plant Werndorf
Vianovastrasse 20
8402 Werndorf
Austria
T: +43 5 9595 9500
F: +43 5 9595 9509
wdf@isovolta.com

FRANCE

ISOVOLTA FRANCE SAS
40, Rue du Professeur Gosset
75018 Paris
France
T: +33 1 4011 0232
F: +33 1 4011 9193
info@isovolta.fr

ISOVOLTA FRANCE SAS
Plant Brognard
253, Allée Adolphe Kégresse
25600 Brognard
France
T: +33 3 813 1270 0
F: +33 3 813 1270 1
info@isovolta.fr

ISOVOLTA FRANCE SAS
Plant Chalette
1, rue Gay-Lussac
45120 Chalette Sur Loing
France
T: +33 2 388 5808 0
F: +33 2 389 8352 5
info@isovolta.fr

MEXICO

ISOVOLTA DE MÉXICO S.A. de C.V.

Michael Faraday No. 6
Parque Industrial Cuamatla
Cuautitlán Izcalli
54730 Estado de México
Mexico
T: +52 55 5870 7930
F: +52 55 5870 5329
info@isovolta.com.mx

GERMANY

ISOVOLTA GATEX GmbH
Industriestrasse 1
92442 Wackersdorf
Germany
T: +49 9431 635 0
F: +49 9431 635 310
info@isovolta.de

ISOVOLTA GATEX GmbH
Plant West
Gottlieb-Daimler-Strasse 1
50181 Bedburg
Germany
T: +49 9431 635 0
F: +49 9431 635 310
info@isovolta.de

SPAIN

ISOVOLTA S.A.U.

Pol. Ind. Can Salvatella
Avda. Salvatella 85-97
08210 Barberà del Vallès / Barcelona
Spain
T: +34 93 729 75 50
F: +34 93 719 05 11
info@isovolta.es

USA

ISOVOLTA Inc.
495 Territorial Street
P.O. Box 287
Harrisburg, OR 97446
USA
T: +1 541 995 6395
F: +1 541 995 8425
info@isovolta-or.us

ISOVOLTA Inc.

477 Windcrest Road
P.O. Box 848
Rutland, VT 05702
USA
T: +1 800 248 5528
F: +1 802 775 5935
info@isovolta-vt.us

ROMANIA

ISOVOLTA S.A.
130, Drumul intre Tarlale
032982 Bucuresti, Sector 3
Romania
T: +40 31 030 1111
F: +40 21 301 1544
info@isovolta.ro

CHINA

CHANGZHOU ISOVOLTA TECHNICAL COMPOSITE Co., Ltd.

51, Hewan Road
Zhonglou Economic Development Zone
213023 Changzhou City
Jiangsu Province
China
T: +86 519 866 22885 8223
F: +86 519 866 22855
info@isovolta.com.cn

HONG KONG

ISOVOLTA ASIA Ltd.
21/F, Golden Star Bldg.
20-24 Lockhart Road
Hong Kong
T: +852 252 91129
F: +852 252 74553
general@isovolta.com.hk

INDIA

ISOVOLTA INDIA PRIVATE Ltd.

27, Kirol Vidya Vihar West Rd.,
400 086 Mumbai
India
T: +91 22 6575 1750 0
F: +91 22 2510 6092
info@isovolta.in

Liaison Offices

TURKEY

ISOVOLTA AG TÜRKİYE İRTİBAT BÜROSU
Kayisdagi Cad. No. 76/8
Karadayi Apt.
34752 Icerenköy - Atasehir / Istanbul
Turkey
T: +90 541 8076860
F: +90 216 5723285
info@isovolta.com.tr

HUNGARY

ISOVOLTA AG MAGYARORSZÁGI
KERESKEDELMİ KÉPVISELET
Kócsag Utca 31
1221 Budapest
Hungary
T: +36 309991883
F: +36 12093444
isovolta@varady-brenner.hu

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