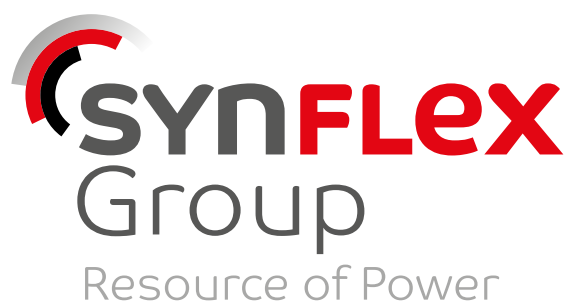




The SynFlex Group

We make the world go around



Resource of Power

Moving more together



Do you realize that you quite probably encounter our products on a daily basis or at least benefit from them indirectly?

Our products are in large part behind the scenes, yet they make your daily life noticeably easier.



The SynFlex Group makes products for the inside, the so-called electrical insulation system (EIS), of state-of-the-art electrical motors, transformers and generators. We deliver the basis for the megatrends of the electrical industry - such as the production of renewable energies, intelligent and distributed electrical grids, as well as the major field of e-mobility.

The SynFlex Group facilitates the implementation of your products with customer-driven and intelligent system solutions.

Common Goal – Joint Progress:
The Resource of Power.



Three strong companies

This is who we are



SHWire sets worldwide standards through product and process innovations. The product portfolio includes round and flat wires, enamelled and braided, made of copper or aluminium. With a capacity exceeding 50,000 tons, state-of-the-art machinery, and an in-house developed quality control system SHWire operates the most modern and largest individual location in Europe.



The core competence of SynFlex lies in the development, manufacturing and distribution of conducting and insulating products for the electrical insulation systems of electrical motors, transformers and generators. Thanks to process and product innovations, SynFlex is a recognized quality leader, setting standards in the electrical industry.



IsoTek is the specialist on all aspects of transformer engineering, with innovative development expertise in the field of electrical insulation. IsoTek's strength involves catering to special requirements with customer-driven solutions and defining and manufacturing precisely the right product for the application.



Moving more together

Synergy ex works



Harnessing synergies! Under the roof of the SynFlex Group, we bring the trusted brands SynFlex, SHWire and IsoTek closer together and can effectively harness synergies in systems

development and consulting, laboratory services and logistics.

In doing so, we attain the highest level of industry-specific system expertise, along with a holistic, long-term approach in terms of how we think and act, in addition to offering the reliability of a family-run business, for the widest array of market and customer needs.



SynServ Advisory & Services

- Know-how providers and solution providers for all logistical challenges
- Fully-integrated IT systems landscape for digital requirements of our customers
- Individual customer consultation by qualified product management
- Product and process quality assured through defined standards and norms:
IATF, ISO14001-2004, ISO9001:2008, ISO 50001-2011, OHSAS 18001:2007
- Risk minimization through professional copper trading



SynLab® Laboratory services according to UL and IEC standards

- first testing laboratory in Europe for FTA, CCT for long and short-term tests according to UL 1446
- Laboratory services for internal, as well as individual customer chemical, thermic, mechanical and electric tests
- Production accompanied by quality controls and technical first-level support



SynFlex International

- More than 650 employees in 13 locations in Europe, Asia and Turkey
- Consistent product quality and standards without barriers



SYNFLEX
Group

SYNFLEX

ISOTEK

SHWire

The quality market leader

With premium enameled copper and aluminum wires



From cigars to enameled copper wire

Tradition and change are hallmarks of the company SHWire, Schwering & Hasse Elektrodraht GmbH. Founded in 1858 as a cigar manufacturer, the company took up parallel production of enameled copper wire at the end of the Second World War. For the 5th generation owner-managed family enterprise, change means letting go of traditional business segments such as the manufacturing of tobacco goods, when there are no more opportunities. Through the parallel buildup of two lines of business, however, the company was able to successfully shape this transformation process.

For this reason, manufacturing continues to be done exclusively at the production plant in Lügde, which has been repeatedly fortified throughout the years through acquisitions and integration of competitors, along with investments in the tens of millions. This also involves the topic of digitalization, which is being promoted in alignment with the reference structure of 'Industry 4.0'.

Over 50,000 tons of production capacity

50 Mio. produced kilometers per year

Largest and most modern single location in Europe

100% data traceability

Centralized production, monitoring and control system

Patented SHWire quality monitoring far above the industry standard

Comprehensive laboratory and development capacities

Partner in the top cluster Industry 4.0

The complete SHWire range

SHSold® Series

SHSold® V155
SHSold® V180
SHSold® V180 Glide

SHTherm® Series

SHTherm® V180
SHTherm® 200
SHTherm® 210
SHTherm® 210 Glide
SHTherm® 210 TE
SHTherm® 210 Alu
SHTherm® 220
SHTherm® 220 Glide
SHTherm® 210 Flat
SHTherm® 220 Flat
SHTherm® 210 Flat Alu

SHBond® Series

SHBond® WD 210
SHBond® WD 210 Glide
SHBond® WD 210 Alu

SHBare® Series

SHBare®
SHBare® Flat

SynFlex Group

Laboratory Services & UL Services acc. to 1446 SynLab®
Consulting & Services SynServ
SynFlex International



The system provider

With integrated products and services



Innovative system provider with an international presence

In order to provide customers a full range of complementary products for manufacturing electrical motors, transformers and generators, SynFlex Elektro GmbH was established in 1963. Originally strictly a trader of enameled copper wires, SynFlex evolved into a producer and fabricator of various electrical insulation materials. In addition to high product availability, SynFlex excels in customer care, thanks to its distribution strength, flanked by experienced product management.

As the first laboratory in Europe for short and long-term tests, SynFlex provides efficient and effective testing and certification of electrical insulation systems according to the Third Party Test Data Program by UL.

The objective is to supply the customer a perfect total package of products and services.

50,000 standard and customer-specific products

Automated and digitised logistic processes world wide

High-profile national and international presence through a comprehensive sales network

Production and logistics locations in Europe, Asia and Turkey

First test lab in Europe for the EIS with tests according to UL 1446

Proprietary UL systems of classes 130, 155, 180 °C

The complete SynFlex range

SynFlex Winding

Premium Winding Wires
SHWire

Winding Wires
SynWire

Litz & Special Wires
SynWire WW

Copper- & Aluminium Foils
SynShield®

SynFlex Insulate

Insulating Materials
SynTherm®

Electrical Adhesive Tapes
SynTape®

Electrical Insulating Sleeving
SynSleeve

Resins & Varnishes
SynChem

Stamped & Shaped Components
SynPrep

Wrapping Tapes
SynWrap

SynFlex Connect & Equip

Connecting Cables & Transformer Terminals
SynCon®

Temperature Monitoring
SynTemp®

FRP Profiles
SynProf

Special Components & Accessories
SynParts

SynFlex Group

Laboratory Services & UL Services acc. to 1446
SynLab®

Consulting & Services
SynServ

SynFlex International



 SYNfLEX

The flexible specialist

For complete solutions in the construction of transformers



More than just products – solutions

With more than 25 years of experience, IsoTek produces individual complete solutions for electrical insulation in the construction of transformers.

An absolute strength of the company is to identify, assess and individually solve customer problems. In doing so, the company excels in its high flexibility and speed of handling. Examples for this include the barrier-free core cooling insulation, the purely mechanically wound clackband, which enables adhesive-free and thus lower-risk transformer construction, right down to customer-specific transformer kits.

For all these products, there is a focus on achieving high application reliability and high-quality specifications. The latter is guaranteed through comprehensive quality control and quality measures.

More than 25 years of practical experience

Sophisticated complete solutions delivered directly to the manufacturing line

Ready-to-use KITs for the construction of transformers

Precise solutions such as the clackband or high-voltage-resistant shaped parts

Insulating materials for electrical and thermotechnology

Modern technologies for efficient manufacturing

Well-rehearsed process routines for perfect results

The complete IsoTek range

IsoTherm Program

Foils
PFP
VPV
DMD
TFT
NPN
NKN
SynTherm® APA
SynTherm® AHA
SynTherm® YT

IsoBoard Program

Pressboard
Aramid Board
CeQuin Board
Laminated Wood
Glass fibre reinforced laminate
Epoxy Resin Sheets
Polyester Resin Sheets

IsoCool Program

Pill Carpet
GFK Profile Mats
PSP Profile Mats
Clack Band glued
Clack Band joined

IsoComp Program

Cylinder
Strips
Spacers
Moulded Parts
Crepe Paper Tubes
Crepe Paper Tubes, MA
CNC Milled Parts
Slot Closure
Slot Liner
3D Stamped Parts
Stamped Parts

IsoKit Program

Customized Ready-to-use Solutions

SynFlex Group

Laboratory Services & UL Services acc. to 1446
SynLab®
Consulting & Services
SynServ
SynFlex International



ISOTEK

Our culture and values

Always a team

Our values determine our actions.

Our common company values have been formulated in cooperation with all our employees, values we live by and put into practice daily. A healthy capital structure, qualified employees, a customer-driven company policy and manufacturing plants according to the state-of-the-art, all contribute towards safeguarding our future. The company

policy is consistently geared towards further developing all customer- and market-relevant parameters and, wherever possible, anticipating future requirements. This occurs through a continuous process of constant optimization of our delivery capability in all functional areas of the company.

Independent

We are a forward-thinking and dependable family-owned company, which places the highest value in its independence.

Trustworthy

We approach our employees, business partners and the public at large with honesty and a sense of responsibility.

Innovative

We strive for more. We work single-mindedly, continuously and tenaciously on the improvement of our processes and products.

Long-term

We develop and produce the best quality products as the most innovative company in the electrical industry.



Our corporate responsibility

Dedicated to the region

Citizens lending a helping hand

The aim of the foundation is to make a financial, personal and non-material contribution towards facilitating the quality of life in the community.

The Schwering & Hasse Foundation takes on an active role on behalf of Lügde and Pymont residents in the tradition of the founding family, as an expression of solidarity for the company's 160-year existence at its location in Lügde and Bad Pymont.



Based on our diverse activities: soccer team for young people, preparation of young people for their future careers, support of volunteer fire departments for youngsters





Always nearby

Operating globally, acting locally

The network of the SynFlex Group guarantees you consistent quality of the service and products, goods availability and professional advisory. We have production and logistics capacities at every location in Europe, Asia and Turkey. Thanks to our extensive sales network, we are also active in countries where we do not have a location, and we can provide individual advice there.

SynFlex Scandinavia

With our location in Copenhagen, we deliver to all of Scandinavia and parts of the Baltic countries.

SynFlex France

With our location in Paris, we supply France, the southern countries of Spain and Portugal, as well as North Africa.

SynFlex Italy

With our location in Bologna, we deliver to customers in Italy and to neighboring countries in the Eastern Mediterranean region.

SynFlex Austria

Our location in Vienna covers not only the Austrian market but also the entire Southern and Eastern European region from the Czech Republic and Bulgaria to the Ukraine.

SynFlex Poland

With our location in Warsaw, we deliver to customers in Poland, the southern Baltic countries, all the way to Belarus.

SynFlex Turkey

With our location in Istanbul, we supply customers in Turkey. At the same time, this location serves as a gateway to the Caucasus and the Middle East.

SynFlex China

With our location in Shanghai, we serve the vast Chinese market, along with all neighboring countries in Central, South and Eastern Asia.



Common Goal – Joint Progress:
The Resource of Power.



Insulation Systems



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Elektro GmbH

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D-32825 Blomberg
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info@synflex.de
www.synflex.com

Magnet Wires



Schwering & Hasse
Elektrodraht GmbH

Pyrmonter Straße 3-5
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info@sh-wire.de
www.sh-wire.de

Electric Insulation



IsoTek GmbH

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