



# 100 YEARS

A LOOK BACK AT OUR HISTORY

**100**  
**FLIESS**  
SINCE 1915



# HERMANN FLIESS & CO. DRAHT- UND DRAHTWAREN

1915

100 YEARS  
2015  
FAMILY TRADITION

Alexander H. Fliess

Hermann H. Fliess





Hermann Fliess



Friedrich Hermann Fliess



Henning Hermann Fliess



Alexander Hermann Fliess

## 36,525 Days of Experience

HERMANN FLIESS & Co. GmbH, Duisburg, Germany is 100 years old this year! This is a very special anniversary, one which fills us with pride and gratitude.

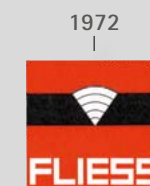
The Fourth Generation family company has been successfully producing and selling welding consumables worldwide. We continue to subscribe to the traditions and values that have made our success possible. These include attention to quality, variety, speed, customer demand, and responsibility to our people and the environment.

Continuity and flexibility throughout changing times have been our trademark. A sense of tradition combined with excitement for innovation, local roots paired with a cosmopolitan outlook – these are the cornerstone of our work. Additionally, along with modern technology, we have qualified and motivated employees. They are the heart of our company, we owe them our special thanks.

We would also like to take this opportunity to sincerely thank all who have supported us in many cases for decades, our customers and partners, at home and worldwide. Your trust and partnership are the core of our business success. We have invested extensively over the past years in order to build a basis to meet the challenges of the future. We are committed to our location in Duisburg and to our local roots. We look forward to new challenges with confidence and joy.

  
Henning Hermann Fliess

  
Alexander Hermann Fliess







100 YEARS

TRADITIONS AND VALUES

**FLIESS**  
SINCE 1915

# A LOOK BACK

and many thanks to all who have accompanied  
us over generations through the decades!

# AT OUR HISTORY



Der Oberbürgermeister.

## Anmeldung des Gewerbebetriebes.

Auf Grund des § 15 der Reichsgewerbeordnung wird hiermit bescheinigt, daß

heute — am 1. Juli für Duisburg

Namen der Friedrich Hermann Fliess auf den  
zur Firmengründung, Hermann Fliess & Co.  
in Gesellschaft von Kraftmaschinen, Gas- u. Wasser- u. Dampfmaschinen  
besitz der Fabrik von Eisen- und Stahlgeräten aller  
Art

nach § 14 der Reichsgewerbeordnung angemeldet worden ist.

Duisburg, den 1. Juli 1915.



Städtische Steuerverwaltung.

J. A.

Wilhelm Lüd. App.

Anmerkung. Es liegt im Interesse der Gewerbetreibenden, jede Veränderung der Firma der Inhaber des Gewerbebetriebes, des Sitzes der Geschäftsleitung, des Geschäftslokals der Betriebsstätten u. der Betriebsart unter Vorlage dieser Bescheinigung hierher mitzuteilen und den Gewerbebetrieb, falls derselbe eingestellt wird oder in andere Hände übergeht, sofort hier abzumelden.

# 1915

In the midst of the First World War, Hermann Fliess and his wife Frieda founded a company to manufacture wires and wire products, located "Am Buchenbaum" in Duisburg.

# 1917

Thanks to Hermann Fliess's foresight, a special department is created, specializing in coating wires used in electric welding (covered electrodes).

# FRIEDRICH

# HERMANN FLIESS



# 1925

The company moved to larger premises with neighboring offices. Friedrich Hermann Fliess, son of the founder, is named partner. FLIESS receives the patent from the "Reichspatentamt" for "welding wire for autogenous and electrogenous welding with a copper-plated surface".

# 1928

In April 1928, Hermann and Friedrich Fliess, together with FELTEN & GUILLAUME CARLSWERK AG in Cologne, start a new company, UNISCO-GESELLSCHAFT H. H. FLIESS & SOHN KG, in Duisburg. In the following years, UNISCO introduces FLIESS products to the international market.





# 1931

On January 1, Friedrich Hermann Fliess acquires his mother's company shares. New production halls are built, including larger office buildings in 1941.

# 1937

Fliess develops and produces submerged arc welding wire.

# 1944

The Company's buildings and property in Duisburg are badly damaged in the Second World War and completely destroyed in 1944. Reconstruction work begins mere weeks after the end of the war in the summer of 1945.

FABRIKFLIESS

# 1951

Following the death of the Company founder Hermann Fliess, his son Friedrich Hermann Fliess is made sole shareholder. In 1955 manufacturing of wire electrodes for gas-shielded metal-arc welding begins and in 1959 FLIESS receives a federal patent for bronze-plated wire electrodes.

# 1960

In December, Friedrich Hermann Fliess founds the company FABRIKFLIESS, NEDERLANDSE LASDRAATEN ELEKTRODENFABRIEK, F. H. FLIESS & CO. N. V. in Gennep to manufacture covered electrodes and CO<sub>2</sub> welding wires.

# DRAWING SPECIALTY WIRE



# 1962

The 21-year-old Henning Hermann Fliess joins the company, representing the 3<sup>rd</sup> generation in the family enterprise. He becomes a general partner in 1965, the company's 50th anniversary. At this time FLIESS produces covered electrodes and welding rods for gas welding, as well as welding wire for inert gas and submerged arc welding.

# 1968

Fliess receives a German patent for "precision layer wound spooling of wire, in particular welding wire". The French patent followed in 1969 and the Dutch patent in 1974. Following the death of Friedrich Hermann Fliess, his 27-year-old son Henning Hermann Fliess assumes sole leadership of the firm.

HENNING  
HERMANN FLIESS







# 1974

Industry increasingly demands the use of gas-shielded arc welding wire instead of covered electrodes, even in the medium-alloy sectors. FLIESS orders entire 120-tonne batches. Soon other electrode manufacturers and sales organizations express interest in our stock.



# 1979

The Company's quality assurance standards are expanded to reflect international standards. Certified quality continues to be the hallmark of FLIESS products.



# 1988

Over several years the commissioning and renewal to all areas of the factory began.



# 1990

Work Practices are extensively modernized and expanded to meet the growing requirements of environmental, worker safety, waste disposal and quality.

# 1993

The production hall is renovated and a new neutralizing and water treatment plant is built.

# 1995

In the 80th year of its establishment, FLIESS installs four new fine-drawing machines.





# 2002

FLIESS commissions new automated spooling lines for gas-shielded arc welding, and a year later puts four new semi-automatic packing machines for welding wire into operation.

With the adoption of international standard for quality ISO 9001, FLIESS once again demonstrates its commitment to the highest level for production and management of the company.

# 2005

Alexander Hermann Fliess becomes the first member of the fourth generation to assume his place in the Company.



# 2011

Operation begins of the new drawing shop and neutralization plant designed to reduce environmental impact.

# 2012

Installation of two new fully automatic spooling lines for gas-shielded welding wire with investment in further spooling and cutting lines. FLIESS now has one of the most modern welding wire production facilities.

# ALEXANDER HERMANN FLIESS



# GENERATION

# 100+

Well-positioned for the next century –  
Quality welding consumables from FLIESS

## The FLIESS Standards remain unchanged: Certified Quality – Made in Germany

100 years of experience in metallurgy and production form a strong foundation to our quality standards. On this basis we guarantee 100% quality assurance, including full source-lot traceability of each product, from wire rod to the smallest Drawn diameter



FLIESS – IF IT NEEDS TO BE SAFE ...!

**FLIESS**  
SINCE 1915





YOU CAN ALWAYS DEPEND ON FLIESS

# FULFILLING THE HIGHEST DEMANDS

## Dependability for demanding industries

Going into the second century of our Company's history, FLIESS will continue to fulfill its traditionally high standards through its own concentrated efforts.

**Our Products:** We offer a wide variety of products and sound metallurgical know-how. Our product range remains oriented to the continually changing requirements of our customers, so we

are always able to remain flexible. FLIESS speciality lies in medium-alloy welding wires, especially for steel that must be creep, cryogenic and weather-resistant.

Today we deliver more than 80 different analyses for a wide variety of welding processes. Diameters ranging from 0.8 mm – 6.0 mm and several hundred variations of spooling/packing etc. available.

**Delivery:** Fliess always stocks several thousand tonnes of wire. If steelworks experience stoppages or delays – we are always able to deliver.

**Production:** As demanding manufacturers, we work with the finest equipment – today FLIESS is one of the most modern drawing shops in the world.

**Motivation Through Qualification:** For decades, FLIESS has been active in the DVS (German Welding Association), focusing on training and certification of specialists. Within our own company, we make sure that our employees remain up

to date of the newest technical developments. We know our motivated and highly-qualified staff are a crucial factor to our success.

**Environmental Protection:** At FLIESS, responsible forward thinking means constant environmental protection. For example, the measurement levels at our neutralization plant for the disposal of drawing baths are much better than

the specified regulations. The relevant authorities have confirmed this: Our plant is known as one of the cleanest in Germany. In other areas such as water and energy use, noise protection and air purity, we continue to meet our ambitious objectives.





**Our finger on the market's pulse –  
we understand the demands and the possibilities.**



Our company philosophy has always emphasized a close connection to research and application, with dependability being our guiding principle.

#### Our Principles:

- We deliver reliable quality, reflecting current state of the art scientific developments.
- We are flexible and fast. We can deliver small orders consisting of multiple products without delay, including various pure grades, surface finishes, dimensions, spooling and packaging.

- We keep our customers' budgets in mind when determining prices. For example, our program includes special unit sizes that allow optimal utilization of shipping container capacity, thus helping to reduce handling and transport costs.
- In order to counter market fluctuations, we maintain a production volume of up to 15,000 tons. This guarantees delivery at fair market prices. Today and tomorrow.
- Our products can be depended upon, particularly for demanding applications such as mobile cranes, power plants, bridge construction, pipelines, offshore plants or wind turbines.

**We establish trust through performance and rely on longstanding partnerships.**

CONNECTED TO THE WORLD

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# LOCATION: DUISBURG

## Steel specialist and logistics hub

Duisburg, metallurgy and FLIESS belong together. On one hand, the Duisburg location combines the highest expertise in steel production and processing with scientific research.

On the other hand, Duisburg's position on the Rhine makes it an international logistics hub offering ideal connections to road, rail, water and airway transport outs. From here, our products can reach our customers as rapidly as possible.

What is true today will apply tomorrow: Quality "Made in Germany", from Duisburg to the world.







MIG (GMAW) WIRES · TIG WELDING RODS · SAW (SUBMERGED ARC WELDING) WIRES · GAS WELDING RODS

**Hermann Fliess & Co. GmbH**

Essenberger Straße 85-93  
47059 Duisburg / Germany  
Tel.: +49 (0)203-31908-0  
Fax: +49 (0)203-3190890  
sales@fliess.biz · www.fliess.biz



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