

**LAUFENBERG**  
RELEASE LINER



**SILICONE COATED  
PAPERS AND FILMS**



## CONTENT

FOREWORD	2
FROM KREFELD-HÜLS INTO THE WORLD	3-4
70 YEARS AT THE FOREFRONT OF DEVELOPMENT	5-6
PRODUCTION & APPLICATIONS	7-8
PRODUCTS & QUALITY FEATURES	9-10
QUALITY & SERVICE	11-12
ENVIRONMENT & RESPONSIBILITY	13-14



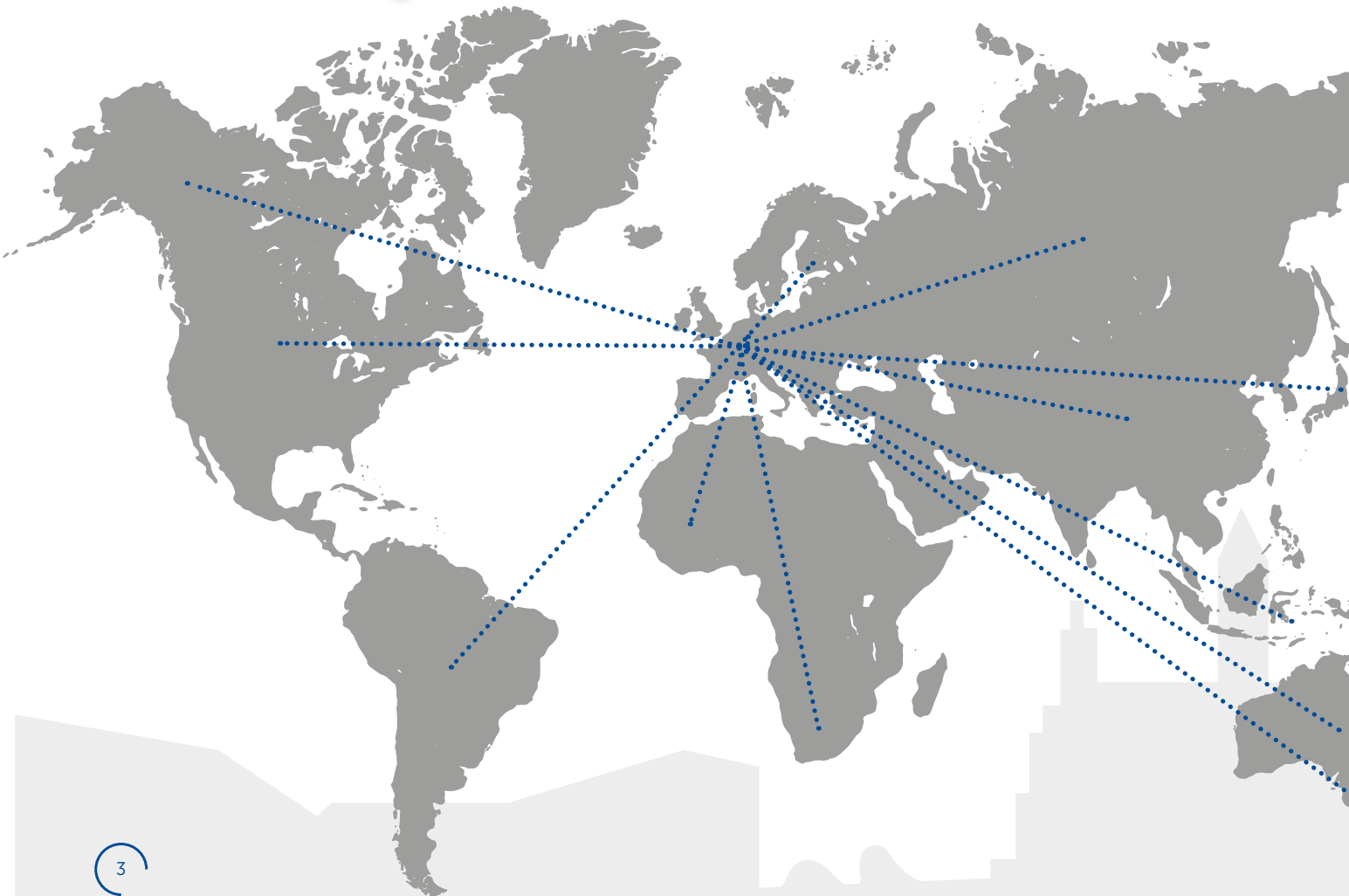
More than 55 years ago our founder Bernhard Laufenberg started with a product that today is essential in many industries – silicone coated papers and films. Early on he started to focus on high demanding markets and today we take pride in our independent family business and the visions we have developed with his ideas.

Quality became our passion. A single product developed into a comprehensive product portfolio and a manufacturer into a problem solver.

Our excellent service assures customers worldwide that with Laufenberg they have a reliable partner for the future. Year by year we invest in the further development of our machines, staff and processes. Our new pilot coater allows us to fulfill our customer's wishes for new products even faster and to further increase our product portfolio.

On the following pages we are proud to introduce our company to you.

Jörg & Stephanie Soding







# From Krefeld-Hüls into the world

Since 1960 Laufenberg GmbH has been located at its headquarters in Krefeld - Hüls. Over the past decades the increase in space to 38.000 sqm has made it possible to build additional production and warehousing space.

The location in the heart of Europe, as well as the proximity to major ports like Hamburg or Rotterdam provides ideal conditions for international commodity trading.

Today Laufenberg delivers to customers in over 60 countries worldwide. A perfect logistical concept, combined with warehousing options in North America, guarantees smooth transactions despite large distances.

A worldwide sales networks as well as flexible working hours at the plant, complete the concept and offer optimal service throughout different time zones and languages.



# 70 years at the forefront of development

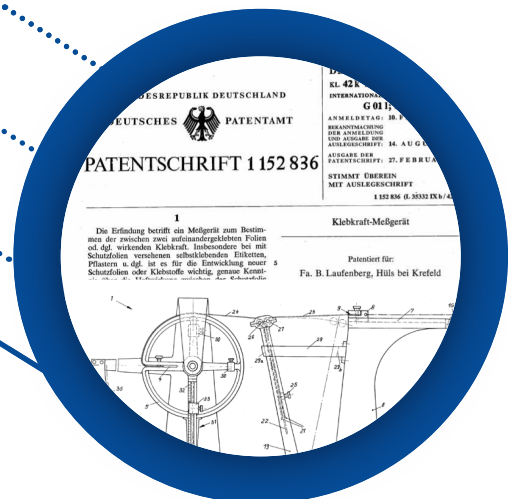
Incorporation of the B. Laufenberg & Sohn KG **1947**

First silicone coated liner **1960**

Installation of the first two coating lines (W3 & W4) **1963**

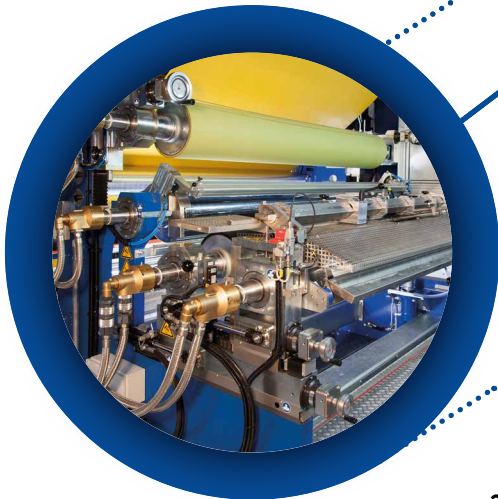
**First patent for release testing 1964**

Laufenberg is a pioneer not only in mechanical engineering, but also in quality assurance. Back in 1960 we filed the first patent for a release testing machine. After the patent was issued to us in 1964 this test method was further developed and set the basis for today's TW1 test method.





2017 Startup of the pilot coating line P1



**2016 Production start of the first silicone coating line with alternating double coating head**

With the rebuild of W4 to the third line for double side silicone coating at Laufenberg, the worldwide first alternating double coating head for silicones was installed. This allows a drastic reduction of set up time, as one coating head can be prepared while the other one is in use.

2014 New building of plant 8 – central slitting & finishing

2009 Takeover of Huhtamaki’s release paper business & installation of the 4th coating line

1995 Accreditation of DIN/ISO 9001 and 14001



1995 Installation of the second line for double side coating

**1983 Production start of Europe’s first solvent free coating line**

Early on Laufenberg invested in forward-looking and ecologically friendly technologies and in 1983 set up Europe’s first coating line for 100% solvent free silicone. The advantages of this technology convinced us so much, that in 1990 our complete production switched to solvent free silicone.

**1971 Installation of the first double sided and today widest coating line in Europe**



In 1971 Laufenberg focused on double side silicone coating. We met the technical challenge to construct, build and operate the first machine that is capable of coating both sides in one pass. 25 years later this machine was rebuilt and modernized to Europe’s widest coating line with a width of 2400mm.

**1970 Self-made remoistening units – unique to this day**



The equilibrium moisture content of glassine papers is around 5,5%. After drying the silicone with temperatures far above 100°C it is essential to remoisten the paper. Our self constructed remoistening units allow us to exactly define the steam state and temperature during this process. As the duration of stay in our steam chamber is a lot longer than with conventional systems, even very thick papers contain an even moisture level and therefore show an optimal lay flatness. Due to this self-made system Laufenberg is the only manufacturer able to provide double side silicone coated papers with a moisture level of up to 7%.





*„Quality means doing it right  
when no one is looking.“* Henry Ford



# Production & Applications

Application fields that we have served for decades, as well as young technologies we have accompanied from the beginning are for example:

## Graphics

- Reflective film for traffic and safety signage, license plate, a.o.
- Self adhesive films of digital and inkjet printing as well as plotter applications
- Decorative films

## Tape

- Single sided tapes
- Double sided tapes
- Transfer tapes
- Specialty tapes

## Industrial

- Automotive industry
- Building industry (Insulation and sealants)
- Conveyor belts
- Hot-melt adhesives
- Holograms for safety features

## Composites

- Pre-impregnated fibres (prepregs); UD and fabric
- Panel pressing

## Medical

- Transdermal Dressings
- Self adhesive products for wound management / surgery
- Ostomy products
- Processing liners

## Customer specific projects

- Toll coating
- Laminates
- Special slitting techniques

### SLITTING

Widths from 12 - 2350 mm

### PRINTING

Flexo, single color as reverse side print or under silicone

### 4 COATING LINES

Coating widths from  
1600 - 2400 mm

### REMOISTENING UNITS

Paper moisture level of  
up to 7%

The application fields for silicone coated papers and films can be very different. Therefore an all-purpose liner does not exist. However there is only one essential requirement concerning the liner – it has to work!

Our production is specialized in coating a wide variety of different base materials with a functional silicone layer. Tailored to the planned application and under consideration of the used base material, different silicone systems that

have been developed with the customer are used.

Here we have access to a variety of different silicone systems that are available in up to 15 release levels and specified with tight tolerances.

## PAPER

Glassine

SCK – Super Calendered Kraft

CCK – Clay Coated Kraft

MGK – Machine Glazed Kraft

PCK – PE Coated Kraft

## FILMS

Polyester

Polypropylene

## SPECIALTY PRODUCTS

Laminates

Latex saturated paper

Antistatic PET film

Writable PET film

Alu-metallized PET film

Colored PET film

Special silicone coatings

Medical product line





# Products & Quality features

LARGE  
VARIETY OF  
PRODUCTS

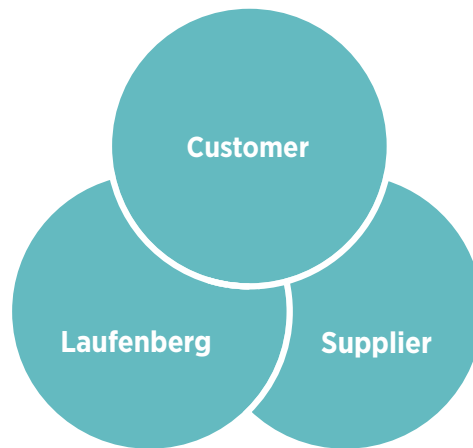
UP TO  
15 RELEASE  
LEVELS

NARROW  
RELEASE  
TOLERANCES

HIGH  
MOISTURE  
LEVEL

# Quality & Service

Our process oriented organization ensures a high level of supply performance and a constant quality. For us high quality describes not only a controlled, stable and working product, but also stands for a partnership where reliability, trust and responsibility play key roles.



A **continuous growth** in our customer and product base results in an increase of **sales** by **67%** in the last **10 years**.



- Customer service
- Logistic concept
- Worldwide presence
- Risk management
- Top Rating (Bisnode)
- Compliance management
- Customer project management
- Supplier contracts, QSA's & NDA's
- Complete traceability



*„Quality is  
our Passion.“*

Integrated Management System

QUALITY

**ISO 9001:2015**

ENVIRONMENT

**ISO 14001:2015 | EMAS**

HEALTH AND SAFETY

**BS OHSAS 18001:2007**

ENERGY MANAGEMENT

**ISO 50001:2011**



## Legal Harvest

Together with our suppliers we make it our business to ensure that only pulp from legally harvested sources are used for our silicone coated papers. This effort is firmly anchored in our company policy and is supported by our integrated management system. This process does not only allow us to document and trace back the used fibers from the paper supplier down to the harvest area, but also defines a regular review of our suppliers.

## Environment and energy policy

At Laufenberg we see it as our responsibility to conserve natural resources and support a sustainable environment. Following this we are not only certified according to ISO 14001:2015 and ISO 50001:2011, but have also undergone a successful EMAS validation in 2014.

Besides energy generation with our own solar plant, we also keep ourselves busy with potential energy savings. We were awarded the 2nd place prize in the IHK's Energy Efficiency awards for the development of a heat exchanger that saves 1.200 tonnes CO<sub>2</sub> per year.





# Environment & Responsibility

## Code of Conduct

The reputation and success of our company is also influenced by the correct and lawful behaviour of our employees. Our Code of Conduct illustrates behavioural requirements to fulfill our social, ethical and ecological responsibilities. Furthermore the code of conduct shows our business partners and the public that Laufenberg stands for values like trust, responsibility and fair play.

## Health and safety

2013 Laufenberg qualified itself for the first time on BS OHSAS 18001:2007. Beyond the borders of this certification, there is a variety of additional preventive actions which take place every year to ensure the health and satisfaction of our staff long-term. Our engagement has been awarded by the AOK and BGF with a prize for a successful workplace health promotion.

2016

Preisträger für  
erfolgreiche betriebliche  
Gesundheitsförderung

LAUFENBERG  
RELEASE LINER

Laufenberg GmbH



*„Quality is  
our Passion.“*



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