

# Our solutions for industrial

we offer high quality solutions for a wide range of applications



**STOKVIS TAPES**

*Effective solutions*

# HIGH QUALITY SOLUTIONS FOR INDUSTRIAL APPLICATIONS

## Stokvis Tapes products are more energy-efficient, lightweight and quieter

Nowadays, global market is asking manufacturers to develop lighter, quieter and more energy-efficient applications due to strict European regulations. At the same time, manufacturers are required to use innovative and sustainable production technologies and improve assembly efficiency. Automated manufacturing increases production output and ensures consistent quality with fewer complaints as a result. Furthermore, in the next few years we will see an increasing demand for smart, multitasking products, equipped with large displays and touch screens, integrated with camera, sensor, voice command, and WIFI components. From sustainable point of view repairability and recyclability will play an increasingly important role. All developments in which self-adhesive tapes and related materials play a major part, and in which Stokvis Tapes is happy to support.

## Why Stokvis?

Our goal is to offer high quality solutions to improve customer's operational efficiencies and to minimize materials waste. You will find that our products are more energy-efficient, lightweight and quieter.

Stokvis Tapes will help you improve your production process, reduce costs, help you develop new products and sell more.

How do we do this?

- Knowledgeable and experienced material and converting specialists within the industrial market.
- Global reach – local support.
- ISO 7 & ISO 8 cleanroom production facilities.
- Stokvis Tapes is the world's largest independent converter of self-adhesive components.
- Innovative, cost-effective solutions for simple to complex needs.
- Full spectrum of rotary, flatbed and laser die cutting to match your needs.
- Technical support & lab testing.

## Our solutions

To meet these needs, Stokvis Tapes offers optimal solutions of high-quality products for a wide range of industrial applications.

Our solutions are designed for the following applications:

- structural mounting of plates, signs and trims;
- air gap bonding of control panels and electrical components;
- optically clear adhesive (OCA) for bonding cover glass and touchscreens;
- assembling of parts made of various substrates;
- surface protection during production, transport and handling;
- electrical insulation and flame retardants;
- thermal insulating and heat management;
- grounding and EMI/RFI shielding;
- venting moisture and air during foaming process;
- NVH insulation and reduction;
- sealing and protection against dirt, dust, grease, moisture and water.

Stokvis designs adhesive solutions for industrial applications:

- |  |                         |                    |
|--|-------------------------|--------------------|
| • various types of machines            | • metal                 | • wearable devices |
| • automotive                           | • medical equipment     | • diagnostics      |
| • ventilation and cooling              | • production systems    | • aerospace        |
| • flooring                             | • transport vehicles    | • displays         |
| • blinds, screens, shades and shutters | • printers and scanners | • electronics      |

For easy and quick mounting Stokvis Tapes uses different pressure sensitive adhesive layers which we customize to your materials, like:

- acrylics (conductive and non-conductive)
- rubbers
- silicones



The previously mentioned self-adhesive layers can be customized with various single or double coated cover liners, like:

- paper
- PET
- PO/PP
- silflu

We have a wide choice of adhesive carriers available, like:

- paper
- PET
- PVC
- MOPP
- aluminum
- foams
- laminates
- polyamide
- copper
- etc.

In addition to the products we mention in this brochure for industrial assembly, we also carry specialist solutions for displays and touch-screens on request. Hereby you can think of:

- brightness enhancement films;
- contrast enhancement films;
- diffuser and translucent graphic films;
- optically clear adhesives;
- sensor camouflage films.

## Benefits of self-adhesive tapes

Self-adhesive tapes are not only effective for bonding. They are also effective for:

- moist, water and air sealing;
- venting;
- insulating (acoustic, electrical and thermal);
- protecting againsts dirt and damages;
- protecting against fire and smoke development.

Additional benefits:

- thinner materials can be used, so saving in weight and cost;
- no waiting time for curing glue and sealants;
- are potentially removable, so the parts are demountable and/or recyclable.



## Customizing and precision manufacturing capabilities

Stokvis Tapes delivers focused and specialized services to meet the needs of your product. Our industry leading service capabilities are dedicated to ensure that production and environment are optimized and controlled, to meet the specific needs of each customer and application.

Our service goes beyond providing the best tape for your application. Understanding your needs and requirements is the first step in creating the perfect product for you. With our in-house converting machines, we can customize tapes to any desired size or shape.

### Die cutting

We customize self-adhesive tapes into die cut parts to create a perfect shaped part for your product or production process. This helps you cut down waste, improve the quality of your product and speed up the production process. By adding extra options, the effect is even bigger.

### Laminating

We're able to make your own product self-adhesive or laminate different tapes and other flexible materials on each other. Whether it's one layer or five, we combine all kinds of flexible materials to create unique self-adhesive products.

### Slitting

Stokvis Tapes is able to slit tapes in the width you need. This way your tape is easier to use with less waste.

### Spooling

Spooled (bobbin wound) tapes are the solution for you when you want to reduce your production stops. Roll length up to 20.000 meters are possible to reduce your line stops to the minimum.

### Other services:

- cleanroom production;
- prototyping (with laser);
- printing;
- private label.

### Benefits of customization:

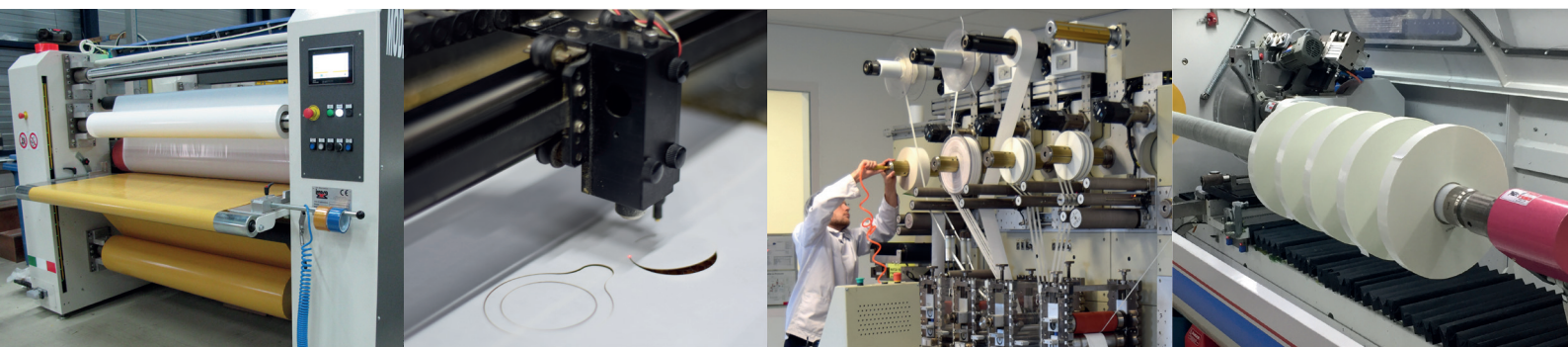
- fits the application perfectly;
- better looking result;
- faster to apply than traditional fasteners;
- optimizing your processes;
- new material combinations are possible;
- less waste.



## Your own materials self-adhesive

Together with you, we select the required adhesive layer and properties on the basis of your wishes and requirements. Materials include foils, films, cloths, foams, felts, fabrics and other materials on rolls, sheets or plates.

Advantages: you use your own familiar materials, which are faster and more efficient to apply, with a visually perfect final result in terms of finishing.



# Product range for industrial use

Below a selection from our range of self-adhesive products that can contribute to industrial applications, with an extra focus on sustainability, health and safety.

In addition, we are happy to develop new, innovative self-adhesive products in cooperation with you. Our tapespecialists are happy to help you with a tailor-made solution to your application.

## StokBond | Assembly of touchscreens and displays

### Application

Our acrylic foams are excellent for structural mounting of control panels and other components made of glass, plastic or metal.

### Products

High performance acrylic foam tape for structural bonding. This double-sided tape consists of an acrylic foam carrier and a pure acrylic UV cured adhesive. Bonds to a wide variety of substrates by flowing into the microscopic surface of materials which results in excellent adhesion and shear resistance. It has high resistance to ageing, temperature, humidity, water and UV light. Additionally, it features vibration dampening, shock absorption, sealing and thermal expansion.

It is used for various mounting/bonding applications like mounting of signs and graphics, replacement of mechanical fasteners and welds. It is also used for bonding of metal and glass.



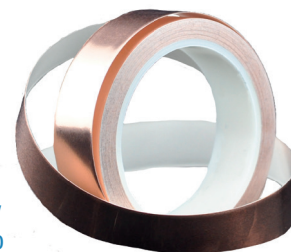
## StokEMI | Grounding and shielding of electromagnetic interface

### Application

Stokvis supplies self-adhesive tapes coated with an electrically conductive acrylic adhesive for EMI/RFI shielding and static discharge applications. We have several carriers available like copper, copper plated PET fabric, PU grounding pads or nickel-copper based conductive foam.

### Products

Self-adhesive single sided dead soft copper, also available with embossed copper foil, gives good conformability to substrates. It is solderable and resists oxidation and discoloration. The acrylic adhesive is highly conductive to ensure good conductive properties for prevention of static charge build-up.



Rectangle shaped grounding pads consist of an electrically conductive, copper plated polyester fabric wrapped around open cell polyurethane foam. These customized grounding gasket for EMI/EMC applications are highly conductive and have a good compression set. Ideally used as grounding and thermal conductive pads for gap tolerance filling.

Nickel-copper based conductive foams. Excellent combination of low compression with high shielding characteristics. These XYZ-axis electrically conductive acrylic foam pads conduct electricity through the thickness (Z-axis) and in the plane of the adhesive (X, Y planes). These features make them ideal for EMI/RFI shielding and as EMI/RFI gaskets to metal surfaces. Available in several thicknesses, with and without conductive self-adhesive.



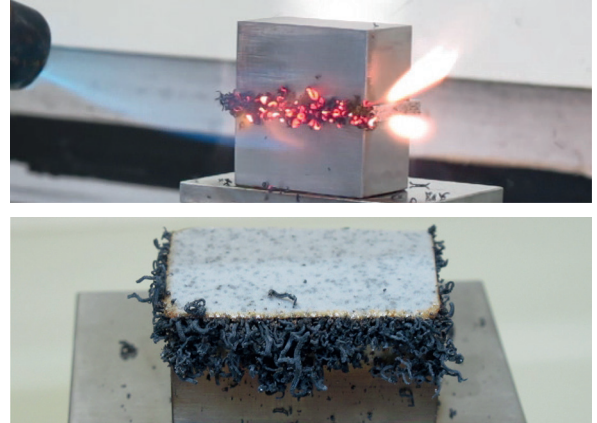


## Fire resistant sealing foam | preventing fire propagation

When exposed to high temperatures, this foam will swell and also create carbon that acts as a shield. This blocks smoke, hot gases and fire and prevents fire propagation.

### This product is a unique combination of different qualities:

- intumescent, to stop flames, hot gases and smoke in case of fire;
- resilient, to absorb differences in expansion;
- soft, to mold to uneven surfaces;
- airtight, for optimal acoustic and thermal insulation;
- waterproof, for indoor and outdoor applications;
- self-adhesive on 1 side (optional), for easy positioning;
- available in 4 thicknesses: 4.5mm, 6mm, 9mm and 13mm.



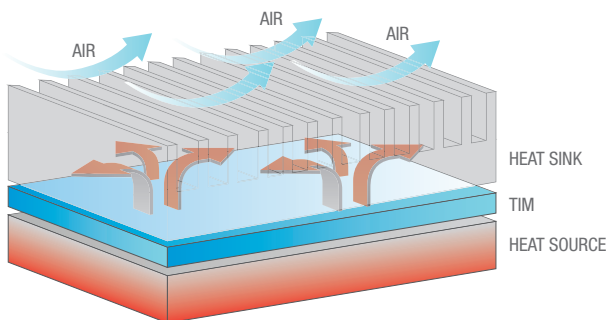
## StokTherm | Thermal managment

### Application

We provide materials that selectively control hot spots and protect heat sensitive parts.

### Products

Thermal Interface Materials (TIM). We supply highly thermal conductive and electrical insulating solutions. This comprehensive range of self-adhesive Thermal Interface Materials combines bonding of the heat source to the heat sink, enabling efficient cooling of the electronic components simultaneously. Besides excellent thermal conductivity these TIM's have good heat and weather resistance.



## StokVent | Air circulation and moisture control

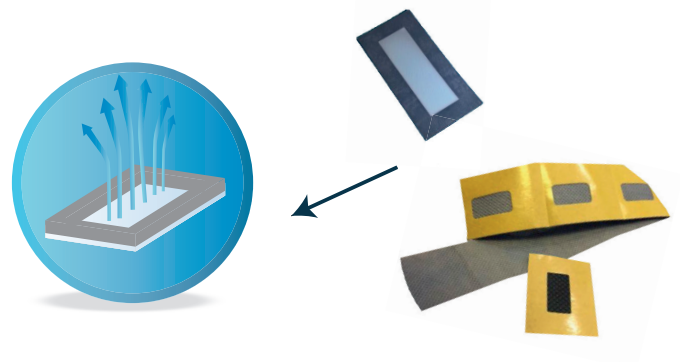
### Application

Our "venting tapes" are very suitable for sealing electronic units against the ingress of liquids and particles, but which can still ventilate to prevent condensation, fogging, overheating and overpressure. Also they allow air and moisture flow, trapped during the foaming process, avoiding foam leakage.

### Products

Single-sided vent tape has a thin, conformable, porous, non-woven carrier that allows high air permeability, without tearing. The acrylic adhesive insures a good adhesion level. It is used in applications where there is a need for trapped air or moisture to be able to escape.

This high-quality filter material combines the protection against intrusion of dust and water with high ventilation properties. As you would expect from us as a converter, the vents can be tailor made to maximize your design flexibility.





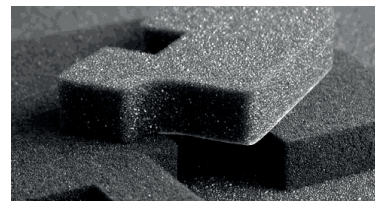
## StokFoam | Sealing from dust, water and air

### Application

Our foam gaskets provide an excellent seal from external agents, perform acoustic absorption, reduce vibration and minimize shocks.

### Products

Foam products are available as single- or double-sided self-adhesive foam tapes. Non-adhesive available also. These products come in divers foams like polyurethane, polyethylene, PVC and EPDM. You can choose from a broad range of thicknesses, densities, colors, open/closed cells etc to perfectly match your needs. These foams can be provided with different types of adhesive layers like modified acrylic or rubber adhesives. All have good tack, final adhesion and are compatible to low energy surfaces. These products absorb shocks and are conformable to irregular surfaces. The foam products can be customized on request like die cuts with easy to remove liners making it easy to apply. They are used for all shapes of die cut gasket applications in the industrial industry.



## StokPad | Noise, vibration, harshness — NVH insulation

### Application

Stokvis Tapes proprietary branded substrates and adhesives are an ideal solution for noise, vibration and harshness reduction of industrial products, machines and production lines.

### Products

StokLite and StokPad are effective noise and vibration absorption solutions, used for acoustic management in the industrial market.

StokLite is an ultra-microfiber noise-absorbing material that features a layered construction: 100% polypropylene (PP) cover scrims on both sides, 55% PP ultra-microfibers, and 45% polyester staple. This product is produced in thicknesses ranging from 12mm to 25mm.



StokPad comprises a range of sound-absorbing fleeces typically made from spunbond PP and thermally bonded PET. This product is produced in thicknesses ranging from 10mm to 20mm. These high performance, hydrophobic, self-extinguishing, low-weight, self-adhesive products are easy to convert and supplied in a variety of colors.

Thanks to their flexible structure, they can easily follow the shape of different surfaces and components. StokLite and StokPad have low emissions and also provide excellent solutions for anti-squeak, dust sealing and thermal insulation.





## StokMount | Fixing of internal and external components

### Application

We supply materials suitable for bonding on difficult low energy surfaces, for example to attach a logo, glass touch panel or plastic bracket to your product.

### Products

For internal and external adhesive bonding our range of double-sided tapes is very comprehensive, you can choose from different carriers, adhesives and liners that will meet all your application needs.

Double coated tissue tape is a double sided tape that consists of a paper tissue carrier and a synthetic rubber adhesive. It shows a good balance between initial tack, peel adhesion and holding power. Being a rubber adhesive system, it also has good adhesion to low energy surfaces. Recommended for bonding different surfaces like stainless steel, HIPS and aluminium.

Double coated PET tape is a double sided tape that consists of a polyester film carrier and a solvent based modified acrylic adhesive. It has a very good resistance to ageing, humidity, water, temperatures, chemicals, solvents, weak acids and alkalis and UV light. It has very good adhesion and shear resistance to metal, glass, varnish and other high surface energy materials. It also has good adhesion and shear to low surface energy materials, and because of its high adhesive mass it is suitable for rough or structured surfaces. It is used for secure bonding in industrial applications.



## Surface protection

### Application

Our protective tapes are able to preserve your product during transport and assembly.

### Products

Stokvis protective film tapes are highly formable and available with different backings like PE and PVC foils in many thicknesses. These self-adhesive products are used to protect various surfaces from mechanical impact and against dust and dirt during handling of devices. Being clean removable and resistant to UV, chemicals, moisture and ageing make these self-adhesive foils suitable for protecting various components during production, storage, transport and installation.



## ITW Formex | Electrical insulation and flame retardancy

### Application

ITW Formex® understands insulation safety needs and requirements as well as engineering design considerations in industrial applications.

### Products

ITW Formex® These polypropylene and polycarbonate flame retardant materials provide superior electrical insulation and barrier materials for use in industrial equipment. It is also useful as a thermal and electrical barrier material which is reflected in its UL 94V-0 Flame Class Rating. The foldable insulating material is available in rolls and sheets, and it can be easily fabricated into a wide range of shapes.





# Heat resistant tapes

## Application

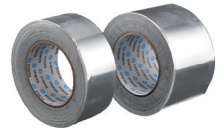
Heat resistant tapes can be produced as both single and double sided versions. Our tapes can undergo high temperatures. This can vary between 120° and 360° Celsius. Our products can be used for: bundling, easy release, laminating, masking, mounting, protection, shielding, insulating, etc.

## Products

Stokvis Tapes has a wide range of heat resistant tapes. Here are some examples:

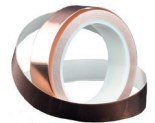
### Aluminium tape

Single sided acrylic or silicone adhesive, used for masking during electroplating, aircraft spraying, sandblasting and powder coating masking, bonding and sealing in HVAC applications.



### Copper tape

Single sided electrically conductive or non-conductive acrylic adhesive, used as an EMI/RFI shielding tape where lightweight, flexible and conductive shielding is required.



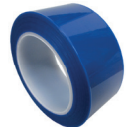
### Glass cloth

Single sided acrylic or silicone adhesive, used for insulating coil connections and coil ends at high temperatures.



### PET film

Single sided acrylic or silicone adhesive available with acrylic or silicone adhesives, used for high temperature masking in the powder coating industry.



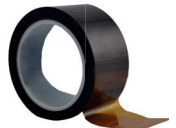
### Silicone rubber glass cloth reinforced

Single sided silicone adhesive, used in high temperature plasma and flame spray masking processes.



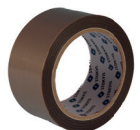
### Polyamide film

Single sided acrylic adhesive, used for high temperature autoclave and composite bonding, and for masking powder coatings, especially where silicone contamination is unacceptable. Can also be used for heat-resistant electrical insulation of current coils.



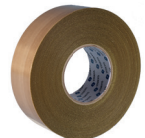
### PTFE tape

Single sided silicone adhesive, used as an easy release surface for wrapping rolls, sheets, belts, etc., where normally sticky materials, ink and paint would accumulate. Chemically resistant surface for coating extractor hoods, bins, gutters, etc.



### PTFE coated glass cloth

Single sided silicone adhesive, used for example as an easy release liner in moulds for wind turbine blades using polyester or epoxy resin formulations.



## Stokvis Tapes also delivers products for the following industries:

- aerospace
- automotive
- batteries
- building and construction
- electronics
- healthcare
- renewable energy
- transport and vehicles



*Each user must test the suitability of the product for its intended use and bears all risk and liability in connection therewith. Stokvis Tapes shall not be liable for any damage resulting from the unsuitability of the product.*



Belgium

China

Denmark

Germany

Finland

France

India

Italy

Mexico

Netherlands

Norway

Poland

Portugal

Russia

Spain

Czech Republic

United Kingdom

United States of America

Sweden

## STOKVIS TAPES BENELUX BV

30/05/2022

### Belgium

Mechelsesteenweg 586C

1800 Vilvoorde

Email: [info@stokvistapes.be](mailto:info@stokvistapes.be)

Tel. +32 (0)22 55 06 11

### Netherlands

Van Hennaertweg 10

2952CA Alblasterdam

Email: [info@stokvistapes.nl](mailto:info@stokvistapes.nl)

Tel. +31 (0)78 699 21 00

[WWW.STOKVISTAPES.NL](http://WWW.STOKVISTAPES.NL)