

SpanSet secutex®

Lifting
Protection
Materials

Materials

SpanSet International

„The world becomes more colorful with SpanSet“
Many developments that are now in general use come from SpanSet. For example, the color coding of lifting slings and round slings was developed at our company to better identify these slings, which were historically single-colored or raw-white. Other important developments were made in the field of round slings and lashing systems, still today SpanSet is the market leader in the field of high quality textile slings and round slings and lashing systems.

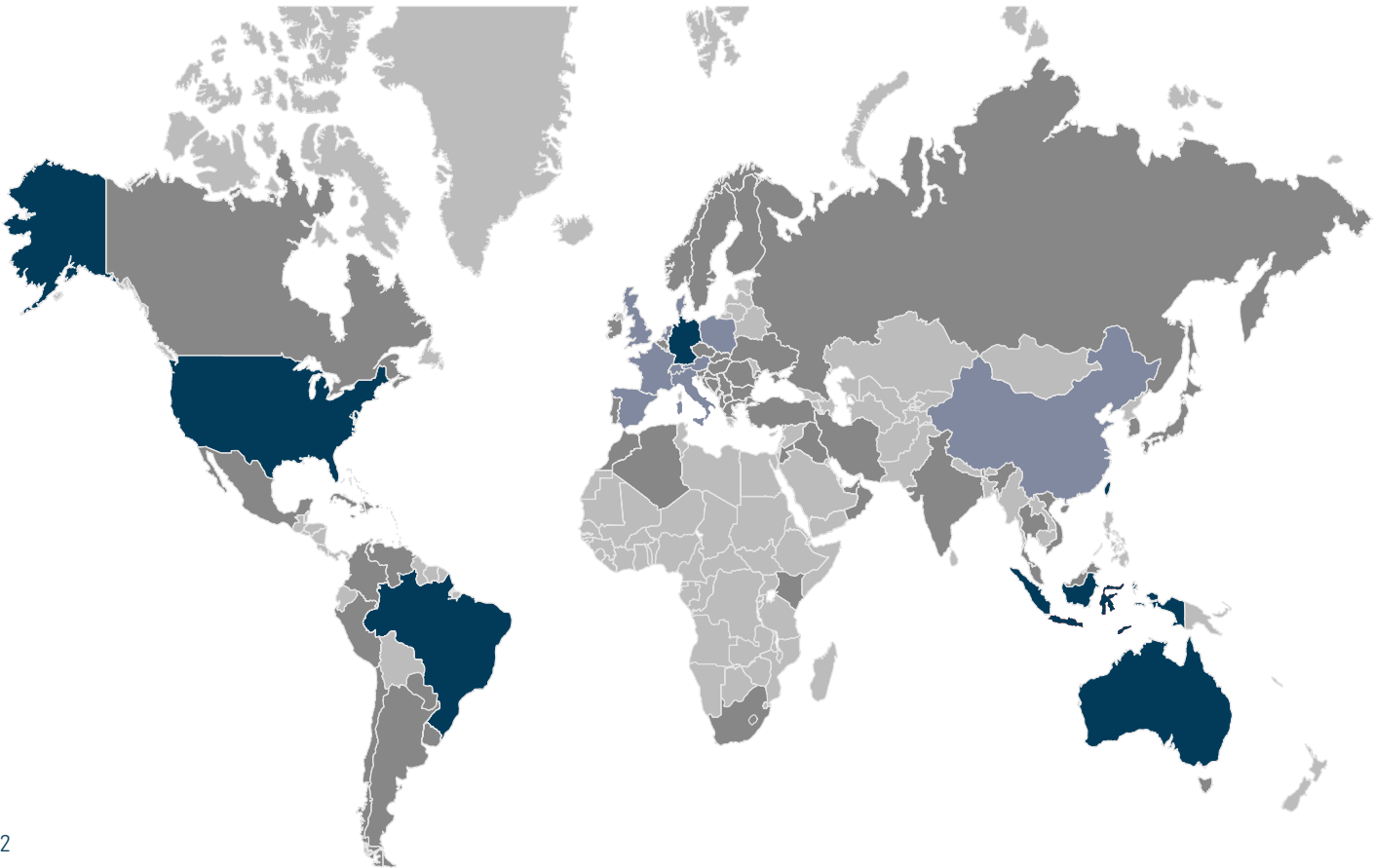
„Strong as steel , but light and easy to use“
SpanSet is the expert in lifting, load securing and high safety, many patented innovations like the production of round slings or the lashings with pull ratchet come from us. Other product highlights were the cut-resistant secutex coating and the Magnum round slings.

The starting point was the co-development of the car safety belt together with Volvo in Sweden in 1959. The demand for textile slings made of synthetic fibers became greater and greater, so that SpanSet was founded in the 1960s.

SpanSet is an owner-managed and internationally operating group of companies with its headquarters in Switzerland. More than 800 employees work for us, we have our own branches in more than 20 countries and factory representatives in almost all industrial countries of the world.

Global and local: Even if not all products are produced at all locations, we can provide our internationally operating customers with competent on-site advice and all-round supply.

SpanSet worldwide



SpanSet secutex

SpanSet secutex Sicherheitstechnik GmbH was founded in 1982 by Heinz Franke and SpanSet GmbH.

At the beginning, the company was mainly active in the development of protection coatings for textile lifting slings and lashing equipment. This was also the birth of secutex, secutex is now the name for „Safe Textile.“

Over the years, secutex has developed into one of the largest manufacturers of compact polyurethane and is now the leading producer of polyurethane-coated lifting slings and protective sleeves. Over the years, we have added technical polyurethane products such as molded parts for mechanical engineering, rollers and roller coatings, fork protection and other surface protection products.

With our own mold making facilities, we are able to engineer individual solutions for the customers and produce them ourselves. Additional to the already existing casting systems, various spraying systems were developed in the next stage of development.

secutex is a highly wear-resistant polyurethane, which was developed for the lifting of sharp-edged components and for the surface protection of sensitive materials – such as coils and copper pipes.

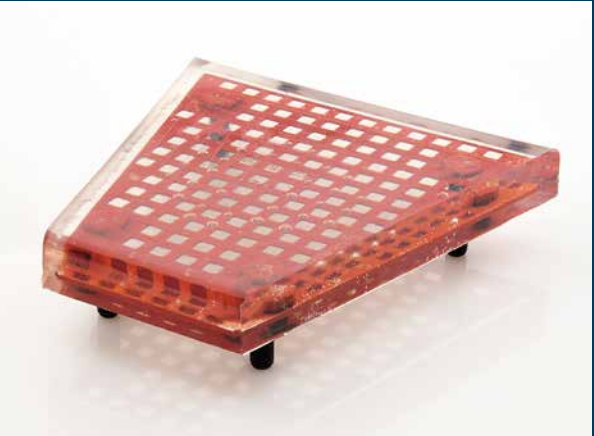
New ideas are consequently transformed into new products. Today, almost all coil stores in Europe are equipped with secutex coil mats and secutex Coilprotect. The secutex protection is almost the industry standard for lifting and storing sharp-edged metal sheets. All products are produced in Germany and distributed directly and worldwide through SpanSet locations and its large network of distributors.

Today, secutex with its almost 70 employees is looking at a wide range of applications and is now a powerful problem solver in many situations to support our customers.



SECUTEX MATERIALS

Examples





Test of tension and compression

The universal testing machine is a professional testing machine for performing tensile, compression and flexure tests. By these tests, the universal testing machine can measure the important material parameters such as elongation at break, yield strength or tensile strength of the specimen.



Test of abrasion

Mechanical abrasion is caused by parallel sliding of two surfaces against each other, which is simulated in the standardized abrasion test. In this test, the polyurethane sample is placed under a real abrasion load. The abrasion resistance of the polyurethane sample can then be measured from the time it takes for the sample to be destroyed.

secutex PU materials have excellent abrasion resistance and are ideally suited for the use in rough areas (steel industry, concrete, etc.). Abrasion is caused by mechanical stress, for example friction, and usually produces very small particles (dust). In materials science, it is considered to be a wear.



Weathering test

The QUV tester for accelerated weathering reproduces the damage caused by sunlight, rain and moisture dew. In just a few days or weeks, the QUV UV Tester can reproduce damage that takes place during months or years of outdoor use. The QUV tests materials by alternately exposing them to cycles of UV light and moisture at controlled high temperatures. It simulates the effects of sunlight with special UV fluorescent lamps, and the effects of moisture dew and rain are simulated with condensing humidity and/or spray water is simulated.



Test of Hydrolysis

Here, a series of material samples are tested, gradually being heated in steps, and then their condition is visually checked.

In addition, the preheated material samples can be tested in a tensile test, and the results allow the material to be evaluated at the different temperature levels.



Coefficient of friction test

The coefficient of friction, also known as the friction coefficient, reflects the relation of the frictional force to the contact force between two objects. When securing loads, for example, this is of major importance in order to ensure safe transport and must be known in advance. It should be noted that the coefficient of friction is not a material-specific constant, but depends on the respective combination of the two friction partners. This means that each coefficient of friction must be tested individually.



Rebound Test

Rebound elasticity is a characteristic parameter for the evaluation of the elastic behavior of elastomers under impact stress. A defined pendulum hammer is lifted at a certain angle and strikes the elastomer specimen with its impact force. Because of the elasticity of the test specimen in each case, the pendulum hammer receives a rebound. The rebound elasticity in % is measured from the rebound height and the drop height of the pendulum.



Hydrolysis & Aging Resistance



Hydrolysis & Aging Resistance

Polyurethane is a material that ages by a process known as hydrolysis. Hydrolysis in general is the splitting of a chemical compound by reaction with water. Hydrolysis breaks down the molecules into their component parts (monomers). Hydrolysis is the chemical decomposition of the polyurethane polymer and the resulting material damage. In the final stage of hydrolysis, the polyurethane products lose their physical properties, the material sometimes has cracks, appears oily and crumbles.

Often, the coated lifting slings and other polyurethane products are stored in locked storage areas before use. These are usually places where there is greater humidity in combination with higher temperatures, there is also no ongoing air exchange. And it is this „standing“ humidity that increases the hydrolysis process and causes the products to age more quickly, even if they are not used at all. This decomposition process is of course significantly faster in tropical and subtropical regions of the world, where it is usually warm and regular humidity is high.

It is not possible to make any generally reliable statements on the resistance to hydrolysis and aging. Weathering tests under real conditions would take far too long and would also not be generally valid. The elastomers to be tested are therefore subjected to very high light exposure in a „weather“ tester, with simultaneous high air humidity and higher temperature. The test samples are then tested in a tensile test after a specified period of time, and the results can be used to forecast the resistance to hydrolysis and aging.



Chemical resistance

General Information

In many cases, the resistance of the secutex PU material to chemicals decides if it is well suited for a specific application. Polyurethanes can behave very differently when exposed to chemical substances, since their compositions differ widely from one another and the various components react differently to the effects of other substances. For this reason, a clear separation of the effects described below cannot be made in every case. For special applications, a special resistance test with regard to swelling behavior and mechanical properties is recommended!

Lubricating oils and greases

The test oils IRM 901, IRM 902 and IRM 903 do not cause any decrease in strength at room temperature. Even after storage at 100° C for three weeks, there is no decrease in tensile strength. The resistance of secutex polyurethane to many lubricants depends on their additives, which can cause irreversible damage. Here, a separate test is recommended.

Please contact us for the correct material selection!



Heat resistance

For warm fabrication

Non-ferrous metals, such as gold, copper or brass, become warm during processing and have a sensitive surface. Rolls and rollers coated with secutex-Heat protect the bar stock in production, abrasion and running marks are reliably avoided.

Operating temperature up to 140°C

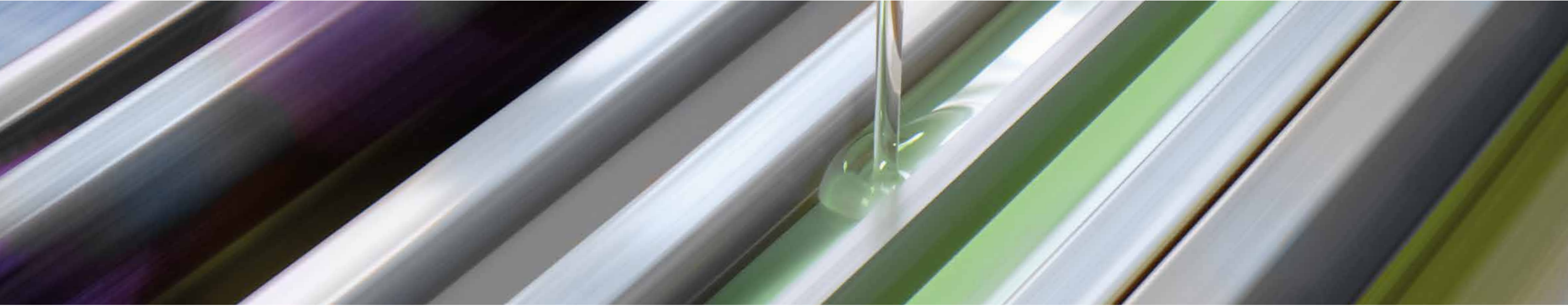
In addition to its positive mechanical and chemical properties, secutex-Heat is an elastomer material for application temperatures up to max. 140°C.

Application temperatures up to 180°C

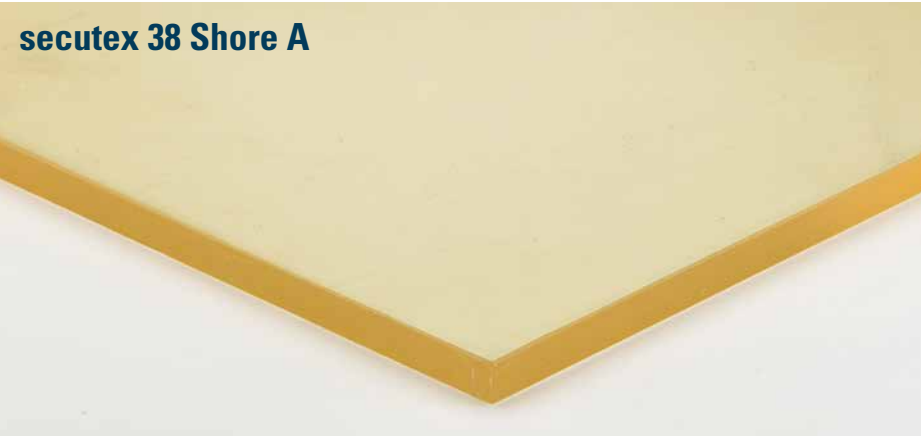
Optionally, „Heat“ can be finished with the „Vitrum“ fiber. This increases the application temperature even to 180°C.



Chemical resistance & Heat resistance



Our standard elastomers															
Product		secutex 38		secutex 55		secutex 75		secutex 85		secutex 90		secutex Heat 90		secutex D 85	
Color		Nature		Yellow		Transparent		Yellow		Yellow		Red		Yellow	
Shore Hardness at 23 °C	DIN ISO 48-4	Shore	38 A	55 A	75 A	85 A	90 A	90 A	85 D						
Tensile E-modulus	DIN EN ISO 527-2	N/mm²	0,8	2,7	15,3	11,6	19,7	21,9	2750						
100 % Yield stress	DIN EN ISO 527-2	N/mm²	0,6	1,2	6,0	4,8	6,6	7,0	-						
300 % Yield stress	DIN EN ISO 527-2	N/mm²	1,1	1,5	8,0	10,3	9,7	17,4	-						
Tensile strength	DIN EN ISO 527-2	N/mm²	1,4	2,8*	12,7*	11,1	11,6	24,1	63,5						
Tensile elongation	DIN EN ISO 527-2	%	388	660*	660*	326	378	337	13,5						
DVR (15%, 70°C, 24 h)	DIN ISO 815	%	n.b.	n.b.	n.b.	33	37	35	n.b.						
DVR (25%, 70°C, 24 h)	DIN ISO 815	%	6	24	51	n.b.	n.b.	n.b.	n.b.						
Density	DIN EN ISO 1183-1	g/cm³	1,10	1,10	1,22	1,10	1,11	1,21	1,13						
Pressure module 10%	DIN ISO 7743	N/mm²	0,3	2,9	12,0	18,7	15,0	20,3	n.b.						
Pressure module 20%	DIN ISO 7743	N/mm²	0,6	3,3	14,0	18,3	20,2	23,8	n.b.						
Rebound elasticity	DIN ISO 53512	%	63	68	42	33	26	21	20						
Further tear strength	DIN ISO 34-1, B (b)	kN/m	3,2	7,0	25,0	44,9	23,0	30,0	n.b.						
Abrasion	DIN ISO 4649	mm³	155	130	125	134	163	60	156						
Use temperature	-	°C	-20 C to 80 C	-20 C to 80 C	-40 C to 100 C	-20 C to 80 C	-20 C to 80 C	-20 C to 140 C	-20 C to 80 C						
* No breakage n.b. not determined															



This soft cast material perfectly adapts to uneven surfaces and is also extremely slip-resistant. It is also suitable for the production of molded parts. Individual color adaptation and dimensions are possible according to the customer’s requirements.

Standard dimensions	
Thickness	min. 10 mm
Width	1000 mm
Length	2000 mm



The customers like the use of our all-rounder because of its wide range of applications. No matter if under heavy-duty use in the steel industry or protective elements under dynamic loads in the impact or edge protection area. With its range of hardness options, it is also extremely flexible in its design possibilities.

Standard dimensions	
Thickness	min. 10 mm
Width	1000 mm
Length	2000 mm



There are nearly no limits to the use of our casting compound. This sturdy material can be used as a semi-finished panel or as a molded part in all applications where the items to be protected have to resist high stresses while being permanently under control. Because its high transparency always gives you a clear view of the relevant product.

Standard dimensions	
Thickness	min. 10 mm
Width	1000 mm
Length	2000 mm



Because of its high precision of reproduction, secutex 85 Shore D is excellent for the production of hard molded parts. The recasting of inserts or the application of different coating systems is easily possible with this system. With secutex Yellow, there are no limits to the design possibilities. The system is characterized by its high impact strength and is ideally suited for use under high stress.

Standard dimensions	
Thickness	min. 10 mm
Width	1000 mm
Length	2000 mm



If there is a risk of heat, secuHeat is the best solution. With the specially developed secutex Heat system, applications can be realized in which standard materials would fail quickly in the presence of high heat contact. No matter if panel or molded product, the options regarding mold design are almost unlimited.

Standard dimensions	
Thickness	min. 10 mm
Width	1000 mm
Length	2000 mm

The color and dimensions can be changed according to the individual requirements.



Plates

secutex is well known in the market as the manufacturer of robust, flexible protection solutions. All materials are manufactured in-house, which gives us enormous flexibility in realizing the customer's requirements. For example, we are able to split our secu-Foam blocks to desired thicknesses, with a choice of three hardness levels.



Cut-to-size

Our secutex elastomers can be machined very well as sheet material. Conventional woodworking machines are just perfect for this process. The cuts are made at the customer's request and significantly reduce the usual waste of cuttings.



Form cuts

secutex has a state-of-the-art CNC waterjet cutting system. This makes it possible for us to produce two-dimensional parts with complex geometries according to the customer's requirements. Our secuFoam material is perfect for this application.



Molded parts

The excellent mechanical machinability of our secutex casting systems allows us to produce the first prototype parts on our state-of-the-art CNC-controlled production machines. This helps to save our customers time and costs for the mold making that would otherwise be necessary.



Milling, turning, drilling
& printing



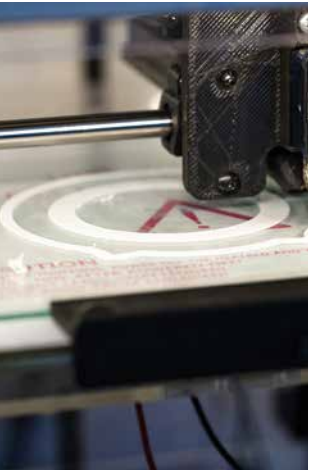
Milling



Turning



Drilling



Printing

Milling, turning, drilling and printing

secutex has all the necessary machines to produce the parts required according to customer drawings. If in-house finishing is requested, we supply the necessary semi-finished products.

Because of our in-house mold making we are able to produce open molds for casting systems as well as foamed polyurethane parts in closed molds. In this process, it does not matter if hard or soft foam systems are to be used, our machinery supports a wide range of applications.



SECUTEX MATERIALS



secuFoam

The secuFoam soft foams are used in applications where high impact forces have to be absorbed. They are extremely durable because of their special formulation, and have high elasticity and fatigue strength. According to the application, we offer our foams in three different densities. In addition to the standard dimensions, we can also provide tailor-made components to individual requirements and specifications.

Standard dimensions

Thickness	5 mm 10 mm 15 mm 20 mm
Width	1000 mm
Length	1500 mm

Modification from standard dimensions possible after request

Standard dimensions

Thickness	5 mm 10 mm 15 mm 20 mm
Width	1000 mm
Length	1500 mm

Modification from standard dimensions possible after request

Standard dimensions

Thickness	10 mm 20 mm
Width	1000 mm
Length	1500 mm

Modification from standard dimensions possible after request

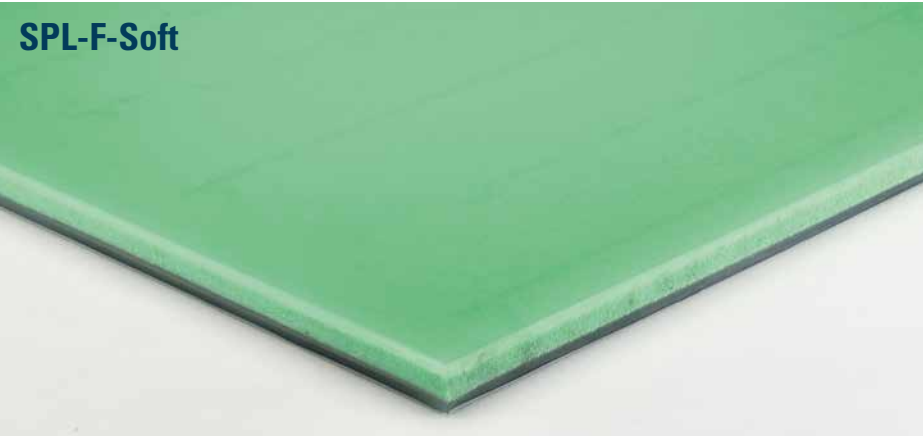
			secuFoam green	secuFoam blue	secuFoam yellow
DVR (50%, 70°C, 22 h)	DIN EN ISO 1856	%	11,5	6,0	8,5
Compressive stress deformation, CV 40	DIN EN ISO 3386-1	kPa	48,4	33,8	16,1
Rebound elasticity	DIN 53512	%	33,2	28,7	24,1
Density	DIN EN ISO 845	kg/m³	225	180	120

SECUTEX MATERIALS

Standard dimensions

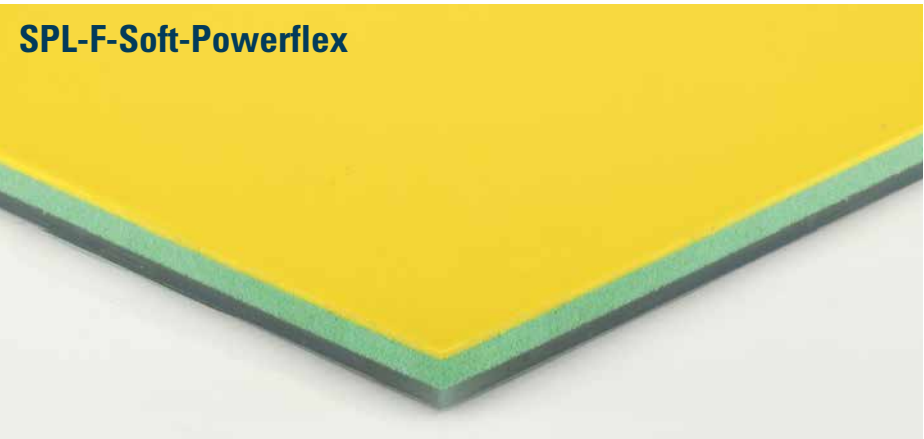
Thickness	15 mm 20 mm 25 mm 30 mm
Width	1000 mm
Length	1500 mm
secuFoam	yellow blue green

SPL-F-Soft



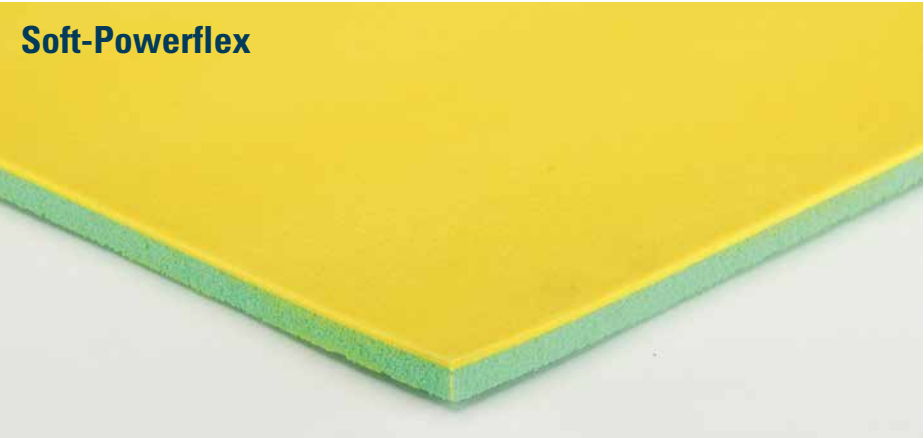
Strong and shock-resistant at the same time. SPL-F-Soft absorbs shocks excellently and offers excellent surface protection. Especially for sensitive goods and objects with uneven surfaces because of the flexible secutex protective layer. The perforated metal sheet on the underside makes SPL-F-Soft perfect for screwing on.

SPL-F-Soft-Powerflex



Extra flexible. The thin Powerflex layer on the top protects the flexible foam. Because of the extra flexible secuFoam it is especially good for extremely sensitive goods. The perforated plate on the bottom makes SPL-Soft perfect for screwing.

Soft-Powerflex



If secuFoam is coated with the Powerflex surface, this prevents dirt particles and liquids from penetrating the foam. In addition, it protects the open-pored material from abrasion without losing the elastic properties. The mounting is done by gluing.

Standard dimensions

Thickness	11 mm 16 mm 21 mm 26 mm
Width	1000 mm
Length	1500 mm
secuFoam	yellow blue green

Standard dimensions

Thickness	6 mm 11 mm 16 mm 21 mm
Width	1000 mm
Length	1500 mm
secuFoam	yellow blue green



Due to its almost absolute closed-cell structure, secuFoam white is ideal for robust outdoor use, because it absorbs almost no water. This makes it a preferred material in areas where other cellular materials reach their limits more quickly, e.g. offshore applications. When used as support pads, e.g. for rotor blades, it leaves no abrasion marks and at the same time protects the sensitive component from scratches or similar damage. Because of its closed surface, secuFoam white does not absorb any dirt and is easy to clean. Different from other materials, secuFoam white is suitable for multiple use and at the same time protects the environment.



secuIntegral



secuIntegral is a semi-rigid integral foam that is especially characterized by its closed-cell structure. This makes it particularly resistant and hard-wearing and it is often used where expensive goods need to be protected. Its high abrasion resistance makes it extremely durable in the face of dirt and water absorption. Because of its good reproduction accuracy, secuIntegral can also be used as a decorative molded part. In addition to the fixed screwing or bonding of secuFlex integral components, magnets or Velcro systems can also be used. This enables the components to be repositioned quickly and the cleaning process much easier.

			secuFoam white	secuIntegral
DVR (50%, 70°C, 22 h)	DIN EN ISO 1856	%	36	40,7
Compressive stress deformation, CV 40	DIN EN ISO 3386-2	kPa	1780	334
Rebound elasticity	DIN 53512	%	28	31
Density	DIN EN ISO 845	kg/m³	800	400
Water absorption (23°C, 72 h)	DIN EN ISO 62	Gew.-%	1,0	5,0



secuBlock is made of a special hard foam system and, as a result of its high pressure stability, is especially qualified as a storage block for heavy components, e.g. rotor blades, aircraft parts, etc. Because of our own mold production we are also able to realize the contour of the component to be picked up according to the customer's requirements and to realize the required construction element by a fast production of the mold.

Because of its low weight, the secuBlock system can also be used on the construction site without any problems, which saves time and energy for an expensive transport. Of course, the use of the rigid foam system can be extended to any applications.

			secuBlock
Compressive strength	DIN EN ISO 844	N/mm²	3,42
Pressure Module	DIN EN ISO 844	N/mm²	126,2
Density (23°C)	DIN EN ISO 845	kg/m³	200
Water absorption (23°C, 72 h)	DIN EN ISO 62	Gew.-%	2,1

Absolutely safe
on the building site



secuBlock with connectors

secutex secuBlock heavy-duty blocks

The secuBlock heavy-duty blocks are used, for example, to support rotor blades on the construction site. They have a modular design and are made of lightweight polyurethane rigid foam. Dredge mats or other boards are ideal as a base, as they can be used for lashing at the same time.

Individual blocks are connected by connectors to form a fixed unit and placed at the position specified by the rotor blade manufacturer. This is located on the flange and tip side. To prevent damage to the rotor blade, a soft protection mat is placed on the upper row of blocks. On the tip side, two support pillows filled with secutex granules are additionally placed on the protective mat, on which the rotor blade is placed. The cushions adapt perfectly to the geometry of the rotor blade and reduce the load on the protective mat.

On the flange side, the two upper blocks are chamfered towards the inside to ensure universal support of different rotor blade diameters.

Using lashing straps, the secuBlock heavy-duty blocks can be secured against shifting and overturning. At the same time, the rotor blade can be secured against the wind load.

Of course, the secuBlock heavy-duty blocks are also used to support other heavy objects such as aircraft parts, pipes, etc.

Dimensions	Length [mm]	Width [mm]	Height [mm]
secuBlock 200	1060	550	300
secuBlock Cushion	1000	330	40
secuBlock Mat	2200	600	50

secuBlock Foam	Value	Unit	Standard
Density	200	Kg/m³	DIN EN ISO 845
Pressure Module	89,0	N/mm²	DIN EN ISO 844
Compressive strength (23°C)	2,71	N/mm²	DIN EN ISO 844
Compressive strength (50°C)	2,40	N/mm²	DIN EN ISO 844
Compressive strength (-30°C)	4,48	N/mm²	DIN EN ISO 844
Water absorption (23°C, 24h)	5,1	Gew.-%	DIN EN ISO 62

SP-F



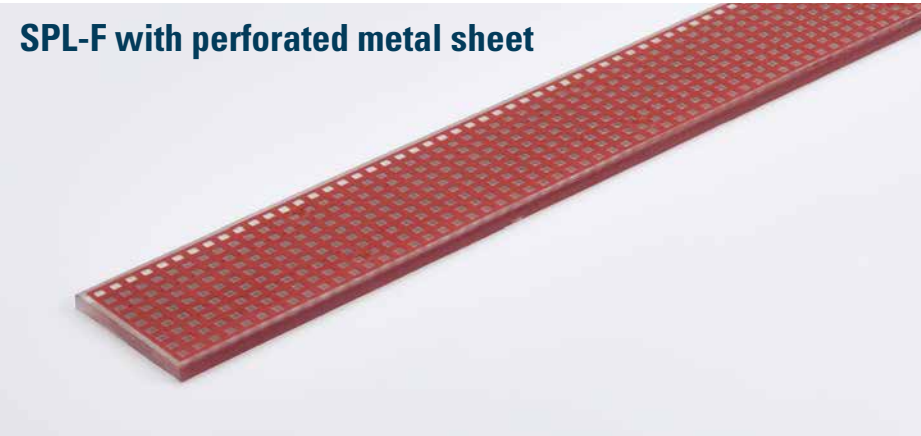
The SP-F type has no reinforcement at all and can be excellently adapted to the place of use. Where screwing or riveting is not possible, it can be easily fixed by gluing with the secutex special adhesive. As a sheet or molded part, SP-F keeps its maximum elasticity – depending on the thickness. At the same time, it stays especially resistant to abrasion and wear.

SPG-F with fabric reinforcement inlay



The fabric prevents the secutex elastomer from stretching under load. And the fabric backing can be bonded excellently because of its larger contact surface.

SPL-F with perforated metal sheet



Our top seller – secutex protection with perforated metal sheet. Easy and flexible to use and can be fixed in position quickly with the perforated sheet as reinforcement. In this way, you can create universal material protection in almost seconds.

Standard dimensions

Thickness	5 - 150 mm
Width	30 - 1000 mm
Length	3000 mm
Hardness Shore A	55 75 90
Color	Transparent or colored

Standard dimensions

Thickness	5 - 150 mm
Width	30 - 1000 mm
Length	Standard length 5 m
Hardness Shore A	55 75 90
Color	Transparent or colored

Standard dimensions

Thickness	min. 10 mm
Width	30 - 1000 mm
Length	Standard length 3 m
Hardness Shore A	55 75 90
Color	Transparent or colored
Perforated sheet metal reinforcement	Standard thickness 2 mm Nibbel plate 4 mm Heavy-duty version 5 mm Stainless steel version 2 mm

SPL-HP



The best idea can also sometimes be hollow. Because of the greater the „crumple zone“, the higher the impact protection. This is not only relevant in the automotive industry, but also wherever goods are to be protected against impact or shock. Hope for the best – expect the worst. Protect your goods from damage! The secutex PROFILE is hollow – but for a good reason.

SPL-W



secutex protection profiles with an internal perforated plate are used when protection is also required at corners. The protection angles can be manufactured as equal-sided as well as asymmetrical.

SPL-HR



secutex protection half-round is designed for the application of round loads that are handled in the company. The perforated sheet on the inside prevents expansion in the length- and cross-direction and can be screwed easily because of that.

Standard dimensions

Thickness	min. 40 mm
Width	from 30 mm
Length	3000 mm
Number Hollow chambers	1 - 5
Diameter Hollow chambers	20 mm 30 mm 40 mm 50 mm

Standard dimensions

Thickness	min. 10 mm
Side length*	50 mm 75 mm 100 mm
Length	3000 mm

*Other dimensions possible on request

Standard dimensions

Diameter	30 mm - 120 mm
Length	3000 mm

Welding



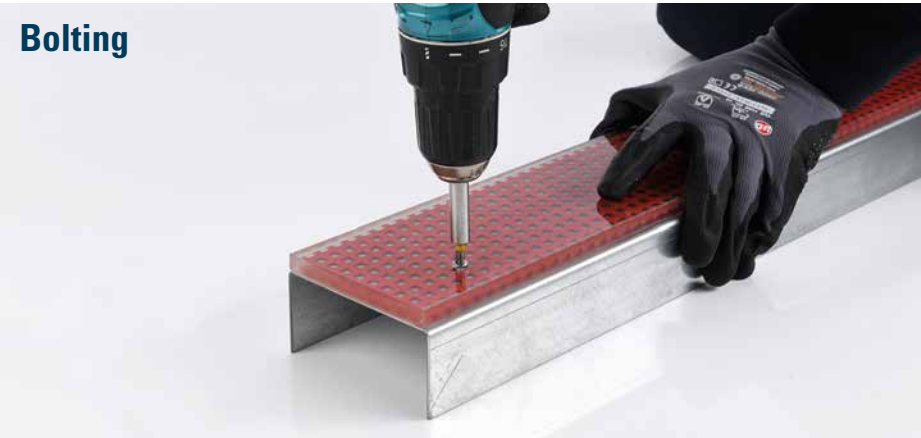
Welding is often the simplest and most reliable method of fastening. The different perforated sheet designs allow a very flexible use. The size and quantity of the welding points depend on the substructure and must be specified on site. Please note that the cast-in perforated metal sheet cannot take over any static functions under any circumstances. The secutex protection can be removed by simply flexing off the welding points.

Rivet



secutex protection systems are nearly always equipped with a cast-in reinforcement made of perforated metal sheets. This makes the profiles easy to rivet. The fastening can be done from the top side. Suitable stepped drill holes are required for this. When fastening from the rear side, small holes in the perforated sheet grid are enough, the surface stays intact.

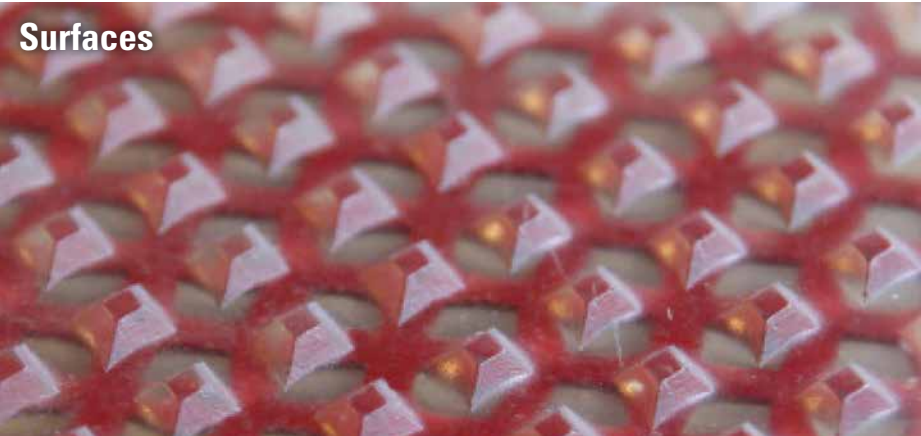
Bolting



Our top seller – secutex protection with perforated metal sheet. Easy and flexible to use and can be fastened using the perforated sheeting as reinforcement. In this way, you can easily install a universal material protection. Size and quantity of the holes depend on the substructure and must be specified on site.



Surfaces



The secutex protection can be produced with different surface finishes. This is important for special applications under the influence of water, oil or ice.

Smooth

Polish

Fabric

Pyramid

SPG-RF



The secutex ramp fender with hollow chamber profile and fabric reinforcement is used as a flexible buffer. The hollow chamber absorbs the impacting energy and protects against damage. The secutex ramp fender is manufactured with a yellow-black textile insert as standard.

Standard dimensions

Width	80 mm 100 mm
Height	100 mm
Length	2900 mm

secuRoll



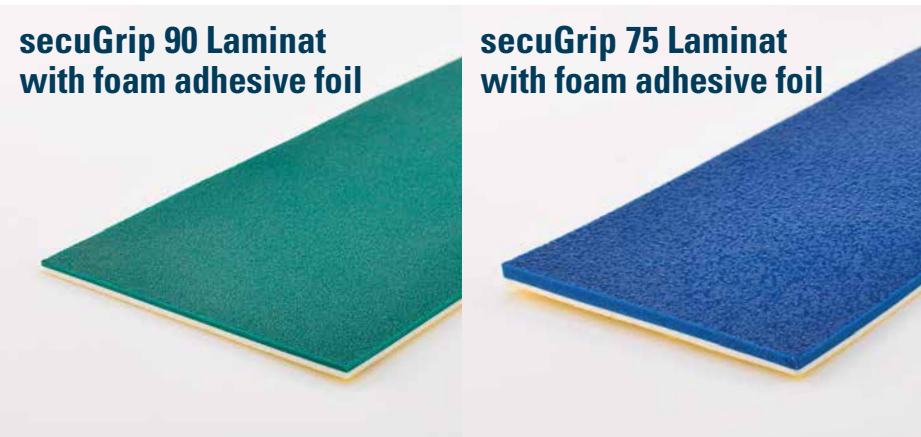
With securoll, secutex offers a coating specially developed for rolls and rollers, which is cast in the form or applied directly to the roll shaft. In the product development, secutex was able to include its great experience with coatings of all kinds. secutex supplies securoll in a large selection for almost every application. Material hardnesses from 55 - 90 Shore A are offered. The innovative process guarantees a high precision of the coating with very low tolerances as well as an optimal and durable connection with the roller/roll shaft and the roller core.

Standard dimensions

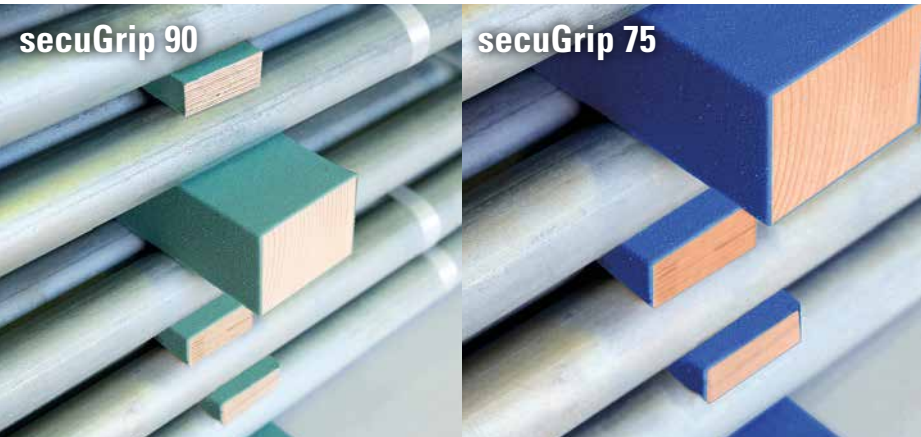
Surfaces	Smooth Polish Slotted
Hardness Shore A	55 75 90
Form	Cylindrical Convex Conical



- With structural surface (according to VDI 2700, sheet 15, point 7; „Slip-resistant materials for securing loads on road vehicles“).
- Very high structural strength (according to VDI 2700, sheet 15, points 7.4 and 7.5; „Anti-slip materials for securing loads on road vehicles“)
- Very good slip resistance, even in wet conditions
- Excellent adhesive strength in combination with UHU PLUS ENDFEST 300



- Proven bonding strength: Quick and easy to glue with laminate adhesive film
- The adhesive film is also optionally available with foam backing



secuGrip is an extremely strong spray coating that is ideal for wooden beams and boards. The coated wooden beams do not absorb oil or water and are perfectly qualified as load securing material because of their certified slip resistance (Dekra tested). The wooden beams become much more stable by coating with secuGrip, our customers recommend the greater durability, also in tough transport use.

Standard dimensions	
Thickness	2 mm 4 mm
Hardness Shore A	75 90
Width	30 - 1000 mm
Length	3000 mm

Standard dimensions	
Thickness*	2 mm 4 mm
Hardness Shore A	75 90
Width	30 - 1000 mm
Length	3000 mm

* 2 mm foam foil extra

Standard dimensions	
Thickness	2 mm 4 mm
Hardness Shore A	75 90
Width	30 - 1000 mm
Length	3000 mm

All beams or fomed elements can be coated.
Please inquire.



With the secuGrip 90 coating, wood, metal or also adhesive foils can be coated. This allows the user to cover specific surfaces and prevents loads from slipping.



Remove the existing protective film if required. The gluing surfaces must be cleaned very well before applying the adhesive. It is recommended that the fork prongs and the tip of the fork are first sanded with 100-grit abrasive paper and then cleaned with cellulose dampened with a grease solvent (acetone). A working temperature of 100°C is recommended, because the adhesive strength of UHU PLUS ENDFEST 300 is twice as high as at room temperature.

Curing time UHU PLUS ENDFEST 300 depending on temperature

20°C	12 h
40°C	3 h
70°C	45 min
100°C	10 min
180°C	5 min

Prüfzeugnis über Reibbelwerte
Geprüft nach VDI 2700 Blatt 14

Für Firma: SpandSecur GmbH

1 Beschreibung der Reibpartner

1.1 Auflagefläche

1.1.1 Art : MULTIPLEX Platten mit secuGrip-90 Beschichtung

1.1.2 Typ : secuGrip-90

1.1.3 Zustand : neu

1.2 Ladegut:

1.2.1 Art : Europool-Palette

1.2.2 Abmessungen [cm] : 80 x 120

1.2.3 Masse des Ladeguts [kg] : 1020

1.2.4 Kontakfläche (bei Verwendung von Rollb) [cm²] : —

2 Prüfbedingungen

2.1 Umgebungstemperatur : 23 [°C]

2.2 Ort und Datum der Prüfung : DEKRA Automobil Test Center Klettwitz, 24.09. - 12.09.2016

3 Ermittelte Gleitreibbelwerte

Anordnung Auflagefläche	Anordnung Ladegut	siehe Foto	Ergebnis µ
längs	längs	Abbildung 1	0,74
quer	quer	Abbildung 2	0,74

Dipl.-Ing. (FH) Ulf Büling
Fachspezialist

Klettwitz, 20.09.2016
Ort, Datum der Ausstellung

Alle Einzelergebnisse wurden im Bericht Nr. 201630395-1 dokumentiert.

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Prüfzeugnis über Reibbelwerte
Geprüft nach VDI 2700 Blatt 14

Für Firma: SpandSecur GmbH

1 Beschreibung der Reibpartner

1.1 Auflagefläche

1.1.1 Art : MULTIPLEX Platten mit secuGrip-75 Beschichtung

1.1.2 Typ : secuGrip-75

1.1.3 Zustand : neu, trocken

1.2 Ladegut:

1.2.1 Art : Europool-Palette

1.2.2 Abmessungen [cm] : 80 x 120

1.2.3 Masse des Ladeguts [kg] : 1030

1.2.4 Kontakfläche (bei Verwendung von Rollb) [cm²] : —

2 Prüfbedingungen

2.1 Umgebungstemperatur : 23 [°C]

2.2 Ort und Datum der Prüfung : DEKRA Automobil Test Center Klettwitz, 12.10. - 17.10.2017

3 Ermittelte Gleitreibbelwerte

Anordnung Auflagefläche	Anordnung Ladegut	siehe Foto	Ergebnis µ
längs	längs	Abbildung 1	0,91
quer	quer	Abbildung 2	0,85

Dipl.-Ing. (FH) Ulf Büling
Fachspezialist

Klettwitz, 21.11.2017

Der berechnete Gleitwert nach DIN EN 12195-1:2011-06 beträgt unter Verwendung des Umrechnungsfaktors 0,920 in Längsrichtung µ = 0,98 und in Querrichtung µ = 0,82.

Alle Einzelergebnisse wurden im Bericht Nr. 201742704-1 dokumentiert.

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