

**SAFETY** grip

# Holding your cargo and pallets securely.

Intelligent and cost-effective load securing



One hundred percent  
anti-slip and  
recyclable

**MULTI-Cargo**  
Load security

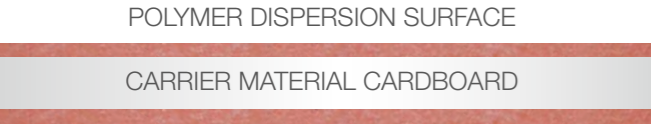
# Our gripping anti-slip materials.

Certified anti-slip mats for pallet and load securing

## SAFETYgrip

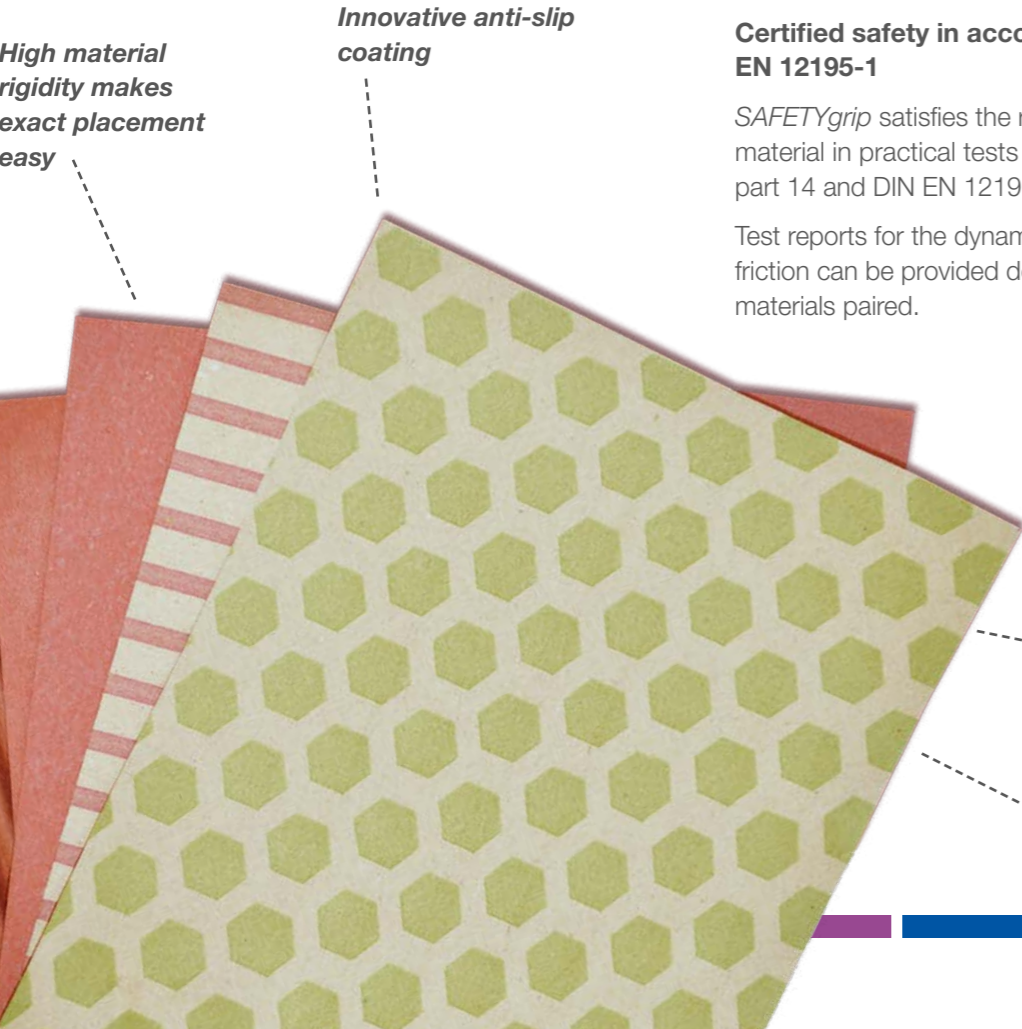
### Anti-slip securing based on special coatings

Load and pallet securing are vitally important for the profitability of shipments. Prevent financial losses due to cargo damage and avoid severe accidents caused by slipping cargo with optimum load securing.



A special polymer dispersion is what gives SAFETYgrip its extremely gripping, friction-enhancing surface.

Cardboard as a carrier material offers high material rigidity for easy placement and adjustment.



High material rigidity makes exact placement easy

Innovative anti-slip coating

### A range of products that save on resources

We only use recyclable materials for our SAFETYgrip anti-slip products.

You will find the right slip-inhibiting materials for securing your load units and shipments among the different SAFETYgrip products based on paper, cardboard or corrugated cardboard. This reduces costs and protects the environment.

### The right securing for every cargo type

One solution for everything – things have moved on. Needs-oriented load securing is what tips the scale nowadays when talking about cost-efficient pallet and load securing.

SAFETYgrip offers needs-appropriate anti-slip solutions ranging from the 100 g paper suitable for use with packaging robots to the high-performance mat for heavy loads and the special anti-slip mats for drums and canisters.

### Certified safety in accordance with VDI 2700 and DIN EN 12195-1

SAFETYgrip satisfies the requirements for a friction-enhancing material in practical tests according to VDI standard 2700 part 14 and DIN EN 12195-1.

Test reports for the dynamic coefficient of friction can be provided depending on materials paired.



Certified dynamic coefficients of friction according to VDI standard 2700 and DIN EN 12195-1

Environmentally friendly and cost-effective



### 1 SAFETYgrip paper stripe

Testliner with stripes, anti-slip coated  
0.2 mm thick

Application: slip-inhibiting intermediate layer



### 2 SAFETYgrip board

Greyboard, completely anti-slip coated on both sides  
0.4 or 0.8 mm thick

Application: strips or sheets as a slip-inhibiting intermediate layer, on the pallet or for enhancing friction directly under the cargo.



### 3 SAFETYgrip soft

Mat with a cardboard core, completely anti-slip coated on both sides  
2.2 mm thick

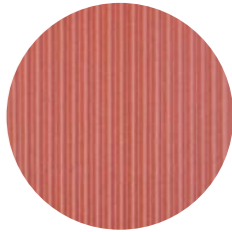
Application: as strips or sheets for load securing directly under the load carrier



### 4 SAFETYgrip wave

Single-face corrugated cardboard, completely anti-slip coated on both sides  
5.0 mm thick

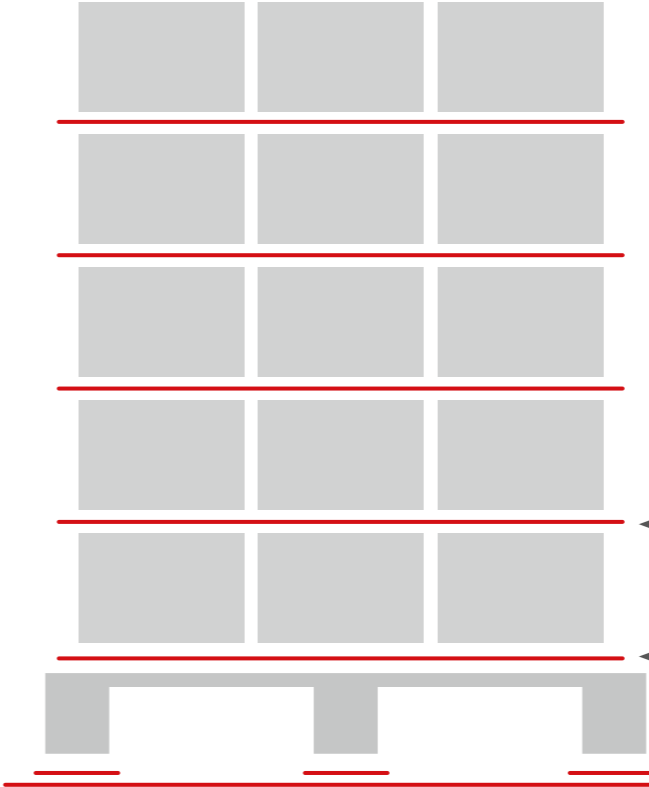
Application: as a friction-enhancing intermediate layer or on the pallet, especially for drums and canisters



### 5 SAFETYgrip comb

Bogus paper, honeycomb-shaped anti-slip coating on both sides  
0.15 mm thick

Application: suitable for packaging robots, as a biaxially slip-inhibiting intermediate layer or on the pallet



Application as anti-slip intermediate layers for securing goods

As a slip-inhibiting base layer on the pallet

Anti-slip protection directly under the cargo



**Note:** Only use anti-slip mats in closed shipments. Wetness can impact the dynamic coefficient of friction. Full performance capacity can only be guaranteed when product-specific instructions have been observed. Values and properties stated were achieved with a representative sample of materials from a typical production batch. During normal production processes, batch-related variations are possible. MULTI-Cargo assumes no liability with regards to the correctness or the application of this information.

# Convincingly convenient, safe and economical.

Powerful alternatives for more transport safety

## SAFETYgrip soft

**Slip-inhibition with certified dynamic coefficients of friction**

SAFETYgrip soft meets all the demands placed on anti-slip materials. The compelling quality of slip inhibition and the high dynamic coefficients of friction have been confirmed in practical tests in accordance with VDI standard 2700 part 14 and DIN EN 12195-1. The inexpensive one-way product ensures that legally required coefficients of friction are met and that excellent slip-inhibiting results are achieved.

Reliably minimizes damage during transport



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Item no.	Description	Anti-slip coating	Thickness	Dimensions	Items/pallet
00003719	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	200 mm x 150 mm	10,000
00009432	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	400 mm x 150 mm	5,000
00003721	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	600 mm x 150 mm	5,000
00003723	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	800 mm x 150 mm	2,500
00003714	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	1000 mm x 150 mm	2,500
00003715	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	1200 mm x 150 mm	2,500
00003717	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	800 mm x 1200 mm	350
00003725	SAFETYgrip soft	Complete anti-slip coating on greyboard	2.2 mm	1000 mm x 1200 mm	350

Special dimensions on request

**Easy handling**

In addition, SAFETYgrip soft offers further advantages over conventional anti-slip mats.

The high material stiffness of the cardboard core allows easy and precise placing of the anti-slip strip under the cargo with no need to put hands under the suspended cargo. An important point for work-place safety.

**Low disposal cost**

All SAFETYgrip materials can be disposed of conveniently as waste paper – with none of the costs associated with the disposal of conventional anti-slip mats.

Dynamic coefficient of friction tested in accordance with VDI standard 2700 and DIN EN 12195-1

Easy placement and adjustment with one hand



Secured load units and goods on loading surfaces



# Little effort for stackloads of effect.

Maximum safety for load units, even on short journeys

## SAFETYgrip board & paper stripe

**Efficient securing of pallet units**

We have equipped all our SAFETYgrip versions with our powerful special coating for use as slip-inhibiting pallet topper or intermediate layer.

SAFETYgrip products offer reliable protection for your goods both as a strong, slip-inhibiting intermediate layer and as scratch protection for delicate surfaces.

They are also certified food safe and offer excellent value for money.

Avoid unnecessary expense and damage during transport by using friction-enhancing SAFETYgrip base and intermediate layers.

Reliable and cost-effective securing of load units



Slip-inhibiting up to a 45° angle

Ideal as pallet topper or intermediate layer



Underlayer and intermediate layer for pallet securing

Item no.	Description	Anti-slip coating	Thickness	Dimensions	Items/pallet
00003710	SAFETYgrip paper stripe	Anti-slip repeating stripe on testliner	0.2 mm	740 mm x 1140 mm	2,000
00005346	SAFETYgrip paper stripe	Anti-slip repeating stripe on testliner	0.2 mm	940 mm x 1140 mm	2,000
00003709	SAFETYgrip paper stripe	Anti-slip repeating stripe on testliner	0.2 mm	1140 mm x 1140 mm	2,000
00003674	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	150 mm x 1250 mm	8,000
00005351	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	740 mm x 1140 mm	2,000
00003672	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	800 mm x 1200 mm	2,000
00003684	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	1000 mm x 1000 mm	2,000
00003686	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	1000 mm x 1200 mm	2,000
00003691	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	1140 mm x 1140 mm	2,000
00003671	SAFETYgrip board	Complete anti-slip coating on greyboard	0.4 mm	1200 mm x 1250 mm	2,000
00003697	SAFETY grip board	Complete anti-slip coating on greyboard	0.8 mm	800 x 1200 mm	1,000
00003700	SAFETY grip board	Complete anti-slip coating on greyboard	0.8 mm	1000 x 1200 mm	1,000

Special dimensions of up to 1140 mm wide and up to 1400 mm long are available on request from 18,000 m²!

# Automatically high performance and low cost.

Anti-slip paper with a strong honeycomb structure

## SAFETYgrip comb

### Partial, multidirectional slip inhibition

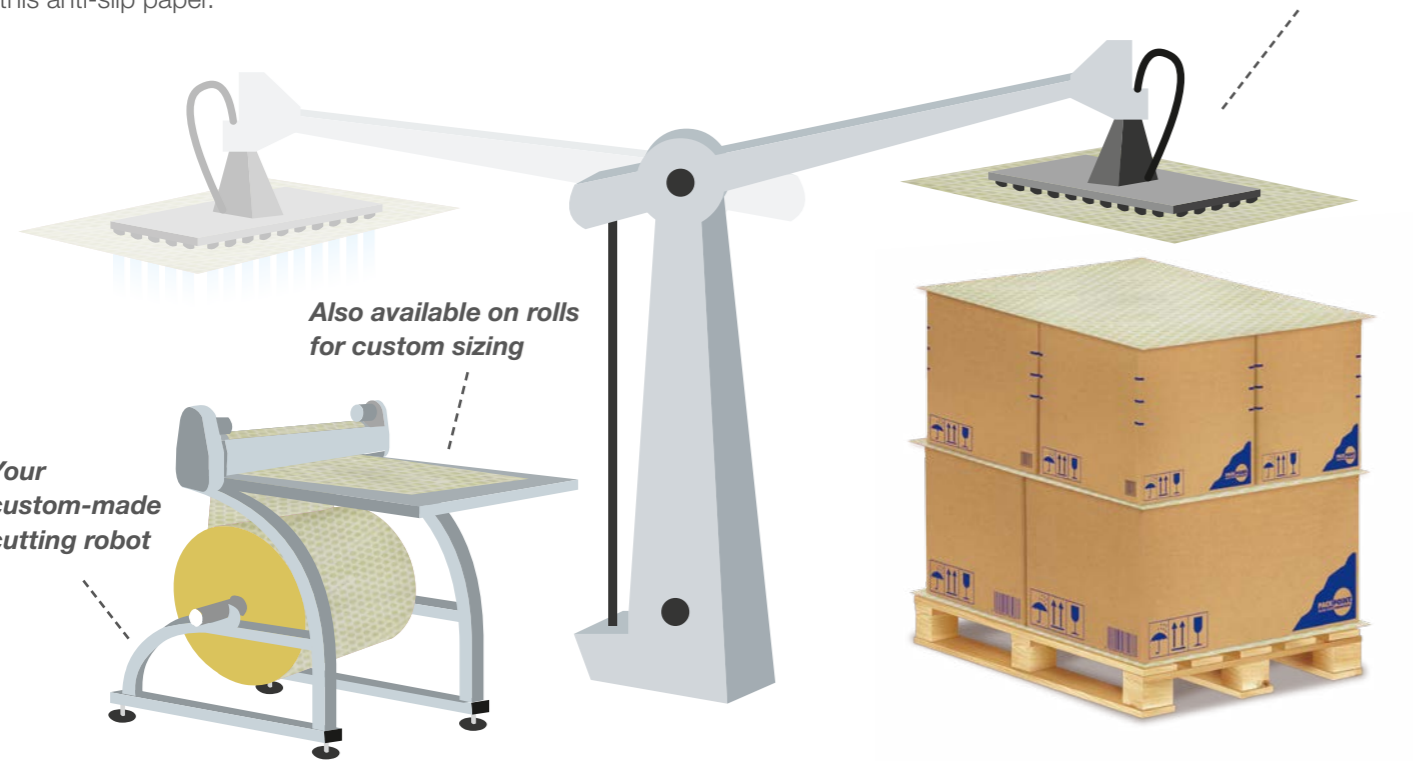
Intermediate layers achieve clear layering patterns by separation. With its unique honeycomb-shaped anti-slip coating, SAFETYgrip comb ensures effective slip resistance on the pallet. The rubber layer is applied partially in a honeycomb pattern and ensures a biaxial anti-slip effect.

You do not need to use stretch wrapping for in-plant transport, so you can save more by reducing the use of stretch film.

The freshly produced intermediate layers can be supplied from stock.

### Certified food safe and suitable for use with packaging robots

With 100 g/m<sup>2</sup>, the bogus paper can easily be handled by any packaging robot. It is also certified food safe, adding to the list of advantages of this anti-slip paper.



Item no.	Description	Anti-slip coating	Thickness	Dimensions	Items/pallet
00014287	SAFETYgrip comb	Honeycomb-shaped anti-slip coating on bogus paper	0.1 mm	700 mm x 1000 mm	5,000
00020192	SAFETYgrip comb	Honeycomb-shaped anti-slip coating on bogus paper	0.1 mm	940 mm x 1140 mm	5,000
00024132	SAFETYgrip comb	Honeycomb-shaped anti-slip coating on bogus paper	0.1 mm	1140 mm x 1140 mm	5,000

# All-round safety for special grip.

Anti-slip wave for securing drums and canisters

## SAFETYgrip wave

### Special version based on corrugated cardboard

SAFETYgrip wave was developed specifically for the barrel and canister shipping industries! The corrugated board anti-slip mat with slip-inhibiting properties up to an angle of 32° and more serves the special demands of barrelled goods.

The single-face corrugated cardboard structure is ideal for containers with uneven or small contact areas. In conjunction with the double-sided anti-slip coating, SAFETYgrip wave offers the ideal base security on the pallet: A metal barrel's flange will dig deep into the corrugated cardboard mat and thus increase friction.

### Securing base for certified load units

Combined with edge protectors and strapping, SAFETYgrip wave forms the ideal foundation for a load unit certified to recognized guidelines.



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Item no.	Description	Anti-slip coating	Thickness	Dimensions	Items/pallet
00014915	SAFETYgrip wave	Single-face corrugated "A" flute with complete anti-slip coating	5.0 mm	740 mm x 1140 mm	350
00005355	SAFETYgrip wave	Single-face corrugated "A" flute with complete anti-slip coating	5.0 mm	800 mm x 1200 mm	350
00007037	SAFETYgrip wave	Single-face corrugated "A" flute with complete anti-slip coating	5.0 mm	1000 mm x 1200 mm	350
00005356	SAFETYgrip wave	Single-face corrugated "A" flute with complete anti-slip coating	5.0 mm	1140 mm x 1140 mm	350

# Light and airy, they keep your cargo safely in its place.

Air-filled padding creates a tight fit between pallet and load units

## What are dunnage bags and padding able to offer?

Filling voids between load units is extremely important for optimum load securing during transport in shipping containers, as well as in railway carriages and lorries.

However, empty space at the side of, between or above pallets is hard to avoid: Load units of different sizes, drummed or bagged goods or incompatible dimensions of load carrier and loaded goods all result in gaps.



These must be closed in order to stop the goods and pallets from shifting due to the forces at work during overseas shipping or similar.

Air-filled dunnage bags like MULTI-Cargo air bags offer a reliable safeguard.



With this padding, you can custom-fill spaces between, next to or above load elements quickly with air and thus achieve a secure compound load.

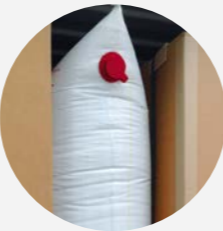
We offer different designs of our MULTI-Cargo air bags for different requirements.

All designs are available with a one-way or a multi-way valve. We also offer the appropriate filling devices.

### MULTI-Cargo Airbag *easy*

Dunnage bags specially designed for load units that are not perpendicular or for stacked crates and boxes. For securing loads without any edges and also within your load units (crates or boxes) with loading gaps of approx. 50 to 400 mm.

*Single-layer material made of 80 µm of polyethylene film (PE); colour: white; length: 600–1500 mm\*; width: 900–2400 mm\*; depth: 50–400 mm\**



### MULTI-Cargo Airbag *basic*

Padding for normal use and less demanding conditions. Fills spaces of 50 to 400 mm such as between perpendicular stacked pallets.

*Double-layer material made of 150 µm of polyethylene film (PE) and 155 µm of polypropylene tissue (PP); colour: white; length: 400–6000 mm\*; width: 600–2000 mm\**



### MULTI-Cargo Airbag *3D*

This three-dimensional dunnage bag takes on big challenges. The *Airbag 3D* allows you to fill especially large gaps of 300 to 800 mm.

*Double-layer material made of 150 µm of polyethylene film (PE) and 155 µm of polypropylene tissue (PP); colour: white; length: 1000–5000 mm\*; width: 500–1700 mm\*; depth: 300–800 mm\**



**\* Further information** on the **complete range** of **MULTI-Cargo Airbags** and their **exact dimensions** is available on request at **+49 (0)5136 8004 111**. Or send an email to **multicargo@nordpack.de**.

# Quick and secure fastening.

Top quality for reliable securing of load units in containers

## Lashings and restraint systems

Container lashings ensure quick, reliable and cost-effective securing of freight within containers. Securing load units to the wall of the container with lashings or putting up restraining sheets makes the load into a single unit with the container, protecting it from slipping.



In addition, sheet restraint systems prevent slipping of the goods into the door of the container, thus avoiding accidents when opening the container doors.



We offer the appropriate product line for securing any weight category, be it standard pallet units or dynamic cargo, for chemical containers or for fragile goods.

Custom designs, different strap widths and grades, buckles and ratchet tensioners, as well as a selection of hooks make for reliable securing of loads inside the load carrier.



### MULTI-Cargo Container Lashings

Our lashings consist of a vertical strap with sewn-on claw hooks with keeper for hooking into the container eyes, made of high-strength polyester strap with low stretch and high tensile strength (50 mm strap width). Depending on the requirements of the goods to be secured, they are available with 2 or 4 securely sewn-on cross straps.

#### 2-strap lashing, standard design

*2600 mm long strap with sewn-on claw hooks with keeper, 2 cross straps of 3100 mm each*

#### 4-strap lashing, standard design

*2600 mm long strap with sewn-on claw hooks with keeper, 4 cross straps of 3100 mm each*

### MULTI-Cargo Container retaining systems

The sheet retaining systems are available with an integrated tarpaulin or integrated air cushion in a variety of strap thicknesses:

#### Full Safety with air cushion

*PP straps: 32 mm; air cushion: 1500 x 2400 mm  
PP straps: 50 mm; air cushion: 2000 x 2300 mm*

#### Full Safety with tarpaulin

*PP straps: 32 mm; woven tarpaulin: 2000 x 2200 mm  
PP straps: 35 mm; woven tarpaulin: 2100 x 2300 mm*

Use the appropriate **buckles** and **tension ratchets** for closing and tensioning the lashings.

**All designs and prices** on request at **+49 (0)5136 8004 111** or by email to **multicargo@nordpack.de**

# Secure, inexpensive and legal.

Certified securing of load units on 4-drum CP pallets

**Tested components for certified securing**

For shippers of barrels, drums or canisters on chemical pallets, barrel securing is a daily task. They know about the importance of forming reliable load units and of load securing.

Take advantage of our tested, certified load unit safeguards with their very impressive benefits.

**Guaranteed to be safe!**

Tested independently based on the EUMOS standard 40509 for load unit rigidity and certified with EUROSAFE certificate KA62342.

**Guaranteed to be good value!**

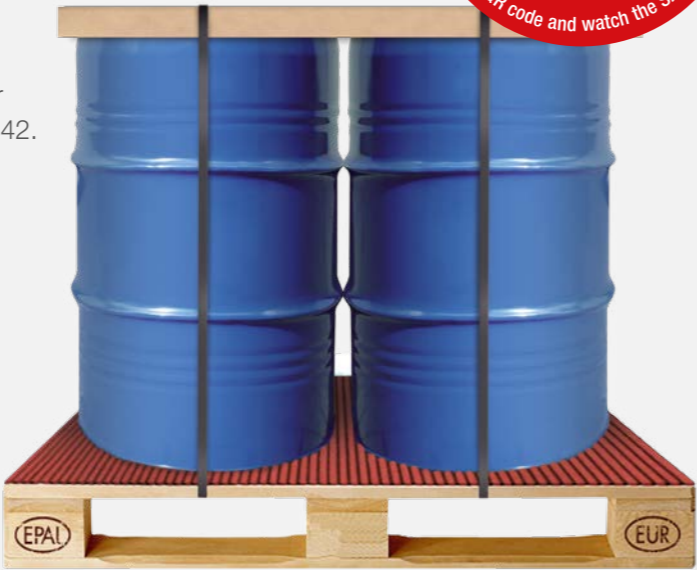
From as little as EUR 5.90 per load unit, use our perfectly co-ordinated and tested products for certified securing of pallet units with 4 PE barrels or 4 metal barrels of approx. 200 l each.

**Guaranteed to be legal!**

Fulfils the requirements of EU directive 2014/47 "Roadworthiness" (legally binding as of 20 May 2018), which came into effect in May 2017, as well as DIN standards such as EN 12642, EN 12195-1.

**And what's best:** You avoid damage from insufficient load unit rigidity.

*Fulfils EU directive 2014/47 "Roadworthiness" and DIN standards such as EN 12642, EN 12195-1*



*Available from EUR 5.90 per load unit*

*Tested to EUMOS standard 40509 and certified with EUROSAFE CERTIFICATE KA62342.*



For questions and a custom offer please get in touch on +49 (0)5136 8004 111 or write a message to [multicargo@nordpack.de](mailto:multicargo@nordpack.de)

# Trust is good, control is safer.

Custom load unit testing and certification in our in-house laboratory

**Coefficient of friction testing with pull and tipping tests**

For the certification of your specific load units, our own coefficient of friction testing facility in Isernhagen offers testing options that include static tests for determining the tipping angle of your original pallet units.

Here, we quickly and efficiently test test and certify a wide variety of units such as drums, boxes, sacks, big bags, etc. in combination with the anti-slip devices you use.

**Real comparisons under consistent conditions**

Here, different slip-inhibiting base and intermediate layers can be compared in the testing laboratory under almost natural and moreover constant conditions. In this way, possible areas of improvement can be identified.

For every test, there is a comprehensive test report.

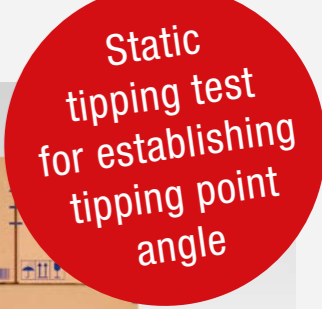
Our TÜV-approved facility has a variety of common floor coverings in addition to different slip-inhibiting base layers for pull tests.

**Safety pays off**

Our testing facility, personnel and premises are also available for your own tests on request.

We offer **testing of your original pallet units** in our laboratory **from a flat rate of EUR 500.**

TÜV approval and certification are charged at cost.



**PICTURED RIGHT: TILT TEST**

Unstretched box load on Euro pallet using SAFETYgrip comb as intermediate layers and on pallet



Call us and let us advise you: +49 (0)5136 8004 111



## Discover now . . .

Our innovative packaging solutions system – a variety of products and performance characteristics for special requirements. **MULTi-Cargo** products stand for:

### **MULTi-Cargo** System packaging

#### **QUICK Lock**

##### Our family of boxes for pallets:

- fast assembly boxes with fast-closing lid
- telescopic packaging
- DIN/ISO packaging
- cardboard packaging with delivery note pocket



### **MULTi-Cargo** Point of Sale

#### **PICK & GO**

##### Boxes for retail and mail order:

- checkout boxes made of corrugated cardboard
- convenient handle boxes
- stackable cardboard crates
- archive boxes with fitted lid
- logistics boxes for shipping



### **MULTi-Cargo** Cool packaging

#### **SAFETY cool bag**

##### The environmentally friendly way to do temperature-controlled shipping:

- recyclable paper-based cool bags
- certified food safe and medicine safe



Call us immediately for custom advice or find more information at [www.multi-cargo.com](http://www.multi-cargo.com)



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