

## VALENO® Stretch film

EXCOR® VALENO® VCI stretch film combines the proven corrosion protection effect of EXCOR® with the specific properties of stretch film for securing whole shipments for transport, for bundling shaped pieces and tubing or to provide a protective skin for machinery and metal coils.

For many years stretch film has performed key shipment securing and product protection functions.

VALENO® stretch film is a three-layer extrusion film with excellent stretch and cling properties. Depending on the design, specific metals and alloys are protected both through direct contact and via the vapour phase. Goods and load units which previously had to be protected before the stretching process with oil, desiccants or other anti-corrosion measures can now be simply and directly wrapped in EXCOR® VALENO® stretch film. EXCOR® VALENO® stretch film packs and protects from corrosion in a single operation. Its corrosion-preventing properties conform to TL 8135-0043, Level 3.

### ADVANTAGES

Secures load and protects against corrosion in a single operation

Odour-free

Recyclable, disposal through household refuse & landfill, can be incinerated

Poses no health hazard, non-toxic, no risk posed by skin contact or inhalation

Excellent stretching properties and elastic recovery

Economical to use thanks to power pre-stretch process

Smooth outer surface means wrapped merchandise packages will not adhere to each other

### Protective effect\*

Type E: Steel, cast steel, partially galvanised steel, Cr, Al 4xxx (Si > 7%), cast iron

Type NE C: Cu, brass, Al 2xxx (Cu) and 5xxx (magnesium) possible

Type NE S: Ag, Cu, brass, Al 2xxx (Cu) and 5xxx (magnesium) possible

Type MM: Steel, galvanised and tin-plated steel, Cu, brass, aluminium 2xxx (Cu), 5xxx (Mg), 6xxx (Mg, Si), 7xxx (Zn), other Al alloys on request, also combinations of the above metals

Type A: Steel, galvanised and tin-plated steel, Cu, brass, aluminium 2xxx (Cu), Mg alloys possible, cast iron

**EXCOR® the corrosion protection that comes out of the packaging!**

\* In the case of metal parts with unusual surface properties, such as high levels of roughness or coated with residue from processing media, before the large-scale commercial employment of EXCOR VCI materials we advise conducting tests on sample packaging in an environment simulating the actual conditions of use. Various climatic test cabinets and environmental chambers up to 16 m³ in volume are available for the purpose at EXCOR Korrosionsforschung GmbH in Dresden.

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## Technical Data

<b>Brief characteristics</b>	EXCOR® VALENO® stretch film is a polyethylene corrosion protection film with active VCI substances impregnated in the polymer matrix. One side clings, outer surface smooth.
<b>Appearance</b>	Transparent, tinted for differentiation purposes (Type E yellow, Type NE blue & Type MM green)
<b>Dosing</b>	One m <sup>2</sup> of film can protect up to 10 m <sup>2</sup> of metal surface. The dosing is influenced by a variety of factors, such as the packaging design, logistical processes, pretreatment of parts, etc.), and because of this prior technical consultation may be necessary. Our application engineers will be happy to advise you.
<b>Active substance build-up phase</b>	About one hour in one m <sup>3</sup> of tightly sealed packaging space at a temperature of 20°C. The closer the product is to the VCI dispenser the shorter the build-up phase.
<b>Active life</b>	Up to two years provided instructions are followed. Long-term corrosion protection for up to 15 years is possible if the instructions and specific logistic and technical packaging guidelines are followed.
<b>Application tip</b>	To optimise stretching result and ensure the most economic use of the film it may be necessary to adjust your existing stretching machine. Our application engineers will be glad to advise you on this.

<b>Storage</b>	As delivered EXCOR® VALENO® stretch film can be stored for up to five years under normal storage conditions. Protect from direct sunlight, humidity and soiling.
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<b>Technical Data</b>	Film density	0,91 - 0,92 g/cm <sup>3</sup>
	Storage conditions	-5°C - 40°C
	Prestretching	up to 200% (i.e., 1 m of stretch film extends to 3 m in length after prestretching)

<b>Quality assurance</b>	EXCOR® tests representative samples from every production batch of VCI packaging for their corrosion inhibitor content. The emission rate of VCI components is tested on a random sampling basis. The German testing body TÜV Süd certifies that the concentrations of VCI active substance or the VCI system have been inspected and approved.
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## Delivery forms

Hand stretch film

Machine stretch film

EXCOR® VALENO® stretch film is available in various thicknesses and measurements

**Standard sizes available from stores:**  
EXCOR® VALENO® manual stretch film  
Type E and Type MM, 30 µm, width x length: 500 mm x 220 m, 50 mm core

EXCOR® VALENO® machine stretch film  
Type E and Type MM, 30 µm, width x length: 500 mm x 1200 m, 76 mm core

## Disposal

recyclable

disposal through household refuse & landfill

can be incinerated

## Health

Poses no health hazard

Non-toxic

No risk posed by skin contact or inhalation

No monitoring requirements under TRGS 615 and no restrictions under TRGS 900

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