



VALENO® bubble wrap

EXCOR® VALENO® bubble wrap combines the established anti-corrosion effect of EXCOR® with the protective cushioning of bubble wrap.

The EXCOR® active anti-corrosion ingredients which are initially firmly held in the polymer matrix of the bubble wrap sublimate on both sides and are thus released as a gas into the surroundings. The user does not need to take account of any specific effective direction. The bubble wrap has a cushioning effect and can also be used to protect the package from sharp metal surfaces. Depending on the design of the wrap, it protects specific metals and alloys – in direct contact and via the vapor phase in sealed packaging. The anti-corrosion properties meet the standards of TL 8135-0043, Level 3. VALENO® is guaranteed to provide its anti-corrosion effect for at least 2 years under normal conditions of use. If the application instructions and specific logistical and technical packaging requirements are observed, long-term corrosion protection of up to 15 years is possible. When the VALENO® bubble wrap is opened, the protective film evaporates from the metal surface within 1 to 2 hours without any residue. The packed goods can be used without further processing. VALENO® bubble wrap is available in various forms – including as pre-cut pieces, flat film, and bags.

▶ ADVANTAGES

- ▶ effective on both sides
- ▶ good cushioning effect
- ▶ protection from sharp-edged parts
- ▶ no danger from skin contact or inhalation if used properly
- ▶ meets TL 8135-0043, Level 3

EXCOR®: The corrosion protection that comes from the packaging!

▶ Protective effect*

- ▶ Type E: steel, cast steel, partly galvanized 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, galvanized and tin-plated steel, Cu, brass, aluminum 2xxx (Cu), Al 4xxx (Si > 7%), 5xxx (Mg), 6xxx (Mg, Si), 7xxx (Zn), other Al alloys on request, combinations of the above metals
- ▶ Type A: steel, galvanized steel, Cu, brass, aluminum 2xxx (Cu), Mg alloys possible, cast iron

* For metal parts with unusual surface finishes, e.g. very rough surfaces or adhesive residues from processing agents, it is advisable to carry out tests using model packaging in a climate that simulates actual conditions before using EXCOR® VCI materials on a large scale. Climate test cabinets and chambers (up to a volume of 16 m³) are available for this purpose at EXCOR® Korrosionsforschung GmbH in Dresden.

VALENO® Bubble wrap



Technical data

Brief description EXCOR® VALENO® anti-corrosion film is a double-layered bubble wrap made from polyethylene film with VCI active ingredients integrated into the polymer matrix. It is effective on both sides.

Dosage 1 m² of film can protect up to 10 m² of metal surface. As factors such as pretreatment of the parts, packaging design, and logistics processes can influence the protective effect, technical coordination of the dosage may be advisable. Our application engineers will be happy to advise you.

Development phase of the active ingredient Approx. 1 hour in an enclosed and sealed packaging space of 1 m³ and at a temperature of 20 °C. The closer the packaged goods to be protected are to the VCI dispenser, the shorter the development phase.

Effective period Up to 2 years from production if application instructions are observed. If the application instructions and specific logistical and technical packaging requirements are observed, long-term corrosion protection of up to 15 years is possible.

Storage EXCOR® VALENO® can be stored for up to 3 years as delivered and protected from direct sunlight, moisture, and dirt, under normal storage conditions.

Approvals Approved by:
Audi AG, BMW AG, Daimler AG, Volkswagen AG

Technical data	Film density	DIN EN ISO 1183-1	0.91–0.98 g/ cm ³
	Standard	Thickness	80 µm
		Width	1,200 mm
		Length	150 m/roll
		Bubble Ø	10 mm

Quality assurance For each production run of VCI packaging, EXCOR® checks representative samples for the content of corrosion inhibitors. The emission rate of the VCI components is checked by sampling. TÜV Süd certifies the testing, measurement methods, and QM processes used.



Delivery forms

Standard
VALENO® bubble wrap Type E
80 µm, 1,200 mm wide, 150 m/roll

Optional
- Pre-cut pieces
- Bags and covers
- Various thicknesses and bubble sizes
- Ready-made products

Disposal

Can be recycled for materials or energy in accordance with local regulations. Observe safety datasheet.

Health

Classification not required under 1272/2008/EC (CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures).

No risk to the skin in dermatological testing.

No monitoring required under TRGS 615 and TRGS 900.

Contact us at:



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