



BRANOfol M3

VCI anticorrosion film



BRANOGuard

Temporary corrosion protection for automotive, mechanical engineering and metal processing industries.

Characteristics

BRANOfol M3 is a bluish transparent, nitrite-free, special-polyethylene foil, two-side active, with active VCI corrosion protection. It is waterproof, weldable and suitable for automatic packing as well as paper bag production.

By emitting constantly a small amount of active anticorrosion substances (VCI principle: Volatile Corrosion Inhibitor), BRANOfol M3 helps to protect metal parts during transport and storage. Active VCI agents effuse and build up a protecting atmosphere, which protects reliably against rust, even after having opened the package for a short time - the protecting atmosphere can be rebuild immediately.

The distance from the foil to the metal depends on the package volume and the time permitted for a protecting atmosphere to build up. A rule of thumb: 10 cm

Development of the Protecting Atmosphere

Volume :	Duration:
< 25 L	approx. 30 Min.
< 1 m ³	approx. 3 Hours
> 10 m ³	> 10 Hours



Range of Protection

BRANOfol M3 protects steel, cast iron on contact, nickel, aluminium, chromium, zinc and copper and its alloys reliably against corrosion.

Test is recommended for cadmium and magnesium and its alloys.

Duration of protection: Depending on the climatic conditions and closeness of package, up to 12 month.

For application advice, please contact your application specialist.

Advantages

- Corrosion protection without oiling and greasing
- Package and anticorrosion protection in one
- Metal parts are ready for use at any time
- Economy of time
- Simple disposal
- Low package requirements
- In accordance with TRGS 615
- Transparent package
- Sealable to bags, tubes
- Protects against humidity
- Non - hazardous material
- Good stretch ability and breaking strength



BRANOfol M3

Product Information

Forms of Delivery

Plain foils, sheets, bags, domes, tubes, half tubes and satchel tubes.

Special Forms

Reclosable film bag, film bag with tie cord, self-adhesive bag.

Storage

Cool and dry, shielded from the sun. Maximum storage time in the original package: 12 months.

Disposal

BRANOfol M3 can be supplied for material utilisation. Dirty foils must be disposed of through waste burning.

Operation Safety

According to the hazard substance ordinance, BRANOfol M3 is not a dangerous preparation. Further information can be found in the material safety data sheet.

In contact with corrosion protection material it is recommended to wear appropriate protective gloves (TRGS 615).

BRANOpac recommendation:



Application

The packing should form a closed space so that the best possible utilisation of VCI foil BRANOfol M3 can be achieved. Water entering the packaged item is to be avoided and to be locked out.

The surfaces to be protected must be dry and free from corrosion-stimulating residues, such as finger sweat and aggressive matter of washing agent, etc. Acids or strong bases interfere with the corrosion protection system. In case of doubt, we recommend a compatibility test to be carried out.

The parts to be protected should not have any direct contact with wood or acidic materials. Atmospheric impurity as well as relative air humidity should be kept out of the package (e.g., no wood parts to be packed together).

BRANOfol M3 is processible in mild heat impulse and in separating-seam welding (up to 100 µm thickness).

If strongly oiled parts are packed, then we recommend the application of non-printed film, since the printing in contact with oil can possibly be solved.

Properties	Test-Method	Unit	M3.04	M3.06	M3.08	M 3.10	M3.12	M 3.15
Thickness	ISO 4593	µm	40	60	80	100	120	150
tensile strength MD	DIN EN ISO 527-3/2/500	MPa	19	19	19	19	19	19
tensile strength CD	DIN EN ISO 527-3/2/500	MPa	18	18	18	18	18	18
breaking load MD	DIN EN ISO 527-3/2/500	kN/m	0,76	1,14	1,52	1,9	2,28	2,85
breaking load TD	DIN EN ISO 527-3/2/500	kN/m	0,72	1,08	1,44	1,8	2,16	2,7
elongation at break MD	DIN EN ISO 527-3/2/500	%	550	550	550	550	550	550
elongation at break TD	DIN EN ISO 527-3/2/500	%	650	650	650	650	650	650
Water Vapour Transmission	DIN 53122 (23 C, 85% r. F.)	g/m ² * d	2,6	1,7	1,3	1,0	0,9	0,7

The above statements are in accordance with current knowledge, non-binding, and, should the situation arise, must be adapted to local requirements. A legal precedent cannot be derived from that. In case of doubt, please take queries to us.



Branopac

Solutions with System

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