# DENSIT®-FK/-K and –RW120

## Product information


### Special advantages:

- Electrically highly insulating.
- Galvanic isolation.
- Especially high adhesive force without pre-treatment of the surface or primer.
- Vibration damping.
- Highly tear resistant.
- ≤ 80°C Qualified for temperatures up to +80 °C (+176 °F).

**Self adhesive, plastic insulation and sealing tapes on butyl rubber basis. Also available as a red tape (DENSIT®-RW120), a variant especially for railway constructions (fulfills DB-TL 91863).**

For a century now, DENSO Group Germany has been representing experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany has been establishing and guaranteeing the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement safe and individual solutions in a personal cooperation with the customer.

## Description

**DENSIT®-FK** features a laminated thin polyethylene film on the opposite side. In contrast to **DENSIT®-K**, the DENSIT®-FK is only adhesive on one side and therefore ideal for the use on free surfaces.

DENSIT®-K is a self-adhesive plastic insulation and sealing tape made from adaptable butyl rubber, single side installation adhesive and a release layer. **DENSIT®-K** is adhesive on both sides and is therefore ideal for the use between metal parts.

DENSIT® tapes are used as intermediate layer between metal surfaces of the same or different type or construction parts made from other materials. Based on their high electrical resistance, they pre vent the generation of galvanic elements between components made from different metals.

**DENSIT®-FK, -K** and **-RW120** are qualified for the

- Sealing of surfaces of metals of the same or different type in heating and cooling systems.
- Sealing of sheet metal ducts, riveted sheet metal packs as well as connections at corrugated spiral pipes in air conditioning and ventilation systems.
- Sealing of connections for prefabricated construction parts made from metal, plastic, glass and other materials.
- Sealing and corrosion prevention at chassis parts and other design elements in the automotive and mobile home construction.
- Sealing of components for the electrical separation of construction elements made from different materials, e.g. steel and aluminum or steel and copper or brass, e.g. in the shipbuilding and aircraft industry.
- Sealing of shed roofs and facades.
- Corrosion protecting and sealing intermediate layer in wagon and container construction.

**DENSIT®-RW120** is especially qualified for the sealing against moisture and for the corrosion prevention of components at railroad cars, which are connected force-fit through screw connections.

## Typical product properties

| Property | | Unit | Typical value | Test method |
|---|---|---|---|---|
| Processing temperature | Environment | °C (°F) | -10 to +70 (+14 to +158) | - |
| | Metal surface | | 0 to +50 (+32 to +122) | |
| | Tape | | 0 to +50 (+32 to +122) | |
| Operating temperature | | °C (°F) | -50 to +80 (-58 to +176) | - |
| Equivalent air layer thickness | | m | 2200 | DIN 52615 |
| Dielectric strength | | kV/mm | ≥35 | DIN 53481 |
| Specific electrical insulation resistance | | Ohm m² | $\geq 10^8$ | DIN 53482 |
| Heat resistance at +120°C (+248°F) | | | Mastic does not drip | DB-TL 91863 (DENSIT®-RW120) |
| Heat pressure test | | | Mastic swells less than 2 mm out, no excretion at lower edge | |
| Low temperature resistance | | | Cracks do not occur | |
| Adhesive capability low temperature resistance | | | Intermediate layer adheres strongly | |
| Resistance to: | | | | - |
| Diluted acids | | | resistant | - |
| Diluted lyes | | | resistant | - |
| Salt solutions, sea water | | | resistant | - |
| Fungus, soil bacteria | | | resistant | - |
| Petroleum ether and other aliphatic and aromatic hydrocarbons | | | durable for short term contact, not durable in case of permanent storage. | - |

## Processing

The surfaces to be sealed must be dry, clean and free of oils, greases and paint residues. Wrap **DENSIT®** with overlapping and slight pull. When using it as an interim layer cut the required length from the roll and place it on the cleaned substrate by pressing on it but not pulling at it. Required holes for the feedthrough of screws and rivets can be drilled. **DENSIT®** tapes can be easily applied manually. The processing on the pipe surfaces is even more efficient using the original **DENSOMAT®** wrapping equipment.

## Ordering information and packaging

| DENSIT®-K, -FK, -RW120 | Thickness (mm) | Roll length (m) |
|---|---|---|
| K10 | 1 | 8 |
| K20 | 2 | 4 |
| FK6 | 0.6 | 15 |
| FK10 | 1 | 10 |
| FK20 | 2 | 5 |
| FK30 | 3 | 2.5 |
| RW120 (red tape) | 1.5 | 10 |

**DENSIT®-FK** and **DENSIT®-K,** as well as **DENSIT®-RW120** are delivered as rolls with standard width of 10, 15, 20, 25, 30, 40, 50, 60 and 100 mm. Additional dimensions available on request. The number of delivered rolls per box depends on the roll width, for example, 4 units are in one box for rolls that are 100 mm wide while there are 40 units in the box for rolls that are 10 mm wide. Rolls less than 100 mm diameter are not packed individually.

## Storage

When stored in its original, unopened packaging, **DENSIT®-K, -FK, -RW120** can be stored for at least 60 months after the manufacturing date.
Storage temperature: ≤ +50°C (+122°F)
Store in a dry location and do not rest anything against the front of the product.

**DENSO GmbH**
P.O. Box 150120 | 51344 Leverkusen | Germany
Phone: +49 214 2602-0
www.denso-group.com | info@denso-group.com



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