

IsoSeal T

Specification **Flange-insulation-gasket for drinking water systems**
 (according to KTW-guidelines of the Umwelt Bundesamtes) -
Cathodic corrosion protection

| | | |
|-----------------|----------------------|-----------------|
| | for EN 1092-1 | for ANSI B 16.1 |
| | DIN 2632-2635 | ANSI B 16.2 |
| Dimensions | DN 15 – 1200 | " ½ - 42 |
| | 1300 (nur bis PN 10) | |
| Pressure levels | PN 6 – 40 | Class 150, 300 |

Carrier material

Binder
 Material PVC hard
 Appearance white

| | <i>unit</i> | <i>value</i> | <i>test method</i> |
|-----------------------------------|-------------------|--------------------|--------------------|
| Thickness | mm | 4,0 / 6,0 | |
| Density | g/cm ³ | 1,42 | DIN 53479 |
| Tensile strength | MPa | 55 | DIN 53455 |
| Compressive strength | MPa | 130 | DIN 53454 |
| Impact strength | J/m ² | 6,3 | DIN 53453 |
| Hardness | Shore-D | 80 | DIN 53504 S3D |
| Operating temperature | °C | 50 | DIN IEC 60216/T1 |
| Maximum temperature | °C | 60 | DIN 44904 |
| Specific surface resistance | Ω | > 10 ¹³ | DIN 53482 |
| Specific volume resistance | Ωcm | > 10 ¹⁵ | DIN 53482 |
| Dielectric constant (300-1000 Hz) | | 3,2 | ICE 60243-1 |
| Dielectric strength | kV/mm | 27 | DIN 53841 |
| Waterabsorption | Gew. % | < 0,01 | DIN 53495 |

Gasket

Material Silicone RTV-1-02
 Appearance anthracite

| | <i>unit</i> | <i>value</i> | <i>test method</i> |
|-------------------------|-------------------|--------------|--------------------|
| Thickness (half O-ring) | mm | 2,0 | |
| Density | g/cm ³ | 1,20 | DIN 53505 |
| Hardness | Shore-A | 55 | DIN 53504 S3D |
| Operating temperature | °C | 50 | |
| Maximum temperature | °C | 60 | |

Certifications: KTW-guidelines test number K-235738-13-Sf/st (22.10.2013)
 W270 concession test number W-239036-14-SI (17.01.2014)

Comments: Gasket carrier made of **PVC-hard** has a good resistance against water, diluted alkaline and diluted acids.
Silicon-Kautschuk RTV1-02 has a good resistance against water, weak acids, diluted alkaline, watery solutions and inorganic salts. It is permanently elastic. It is aging and temperature resistant.
 The O-ring-characteristic of the silicone bead ensures the absolute tightness of a solid elastomer gasket already at low or lowest sealing pressure.

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 based on german datasheet IsoSeal_T.doc
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