

KWO® MultiTex® Ring – ePTFE Flat Gasket



KWO® MultiTex® Ring is produced from 100% pure expanded PTFE without any pigments, inks or adhesives, and therefore especially suitable for clean applications.

The flexible material adapts well to sealing surfaces, compensates irregularities and seals at very low stresses.

Suitable for use in metallic flanged, as well as stress sensitive connections.

Seals most chemicals across the whole pH range (0-14).



★ Advantages

- > Adapts well to sealing surfaces, compensates irregularities
- > Superior resistance to creep and cold flow
- > Very high sealability especially at very low stresses

⚙ Properties

- > High chemical resistance
- > UV resistant, non-ageing, unlimited storage
- > nontoxic, biologically inert

🏠 Applications

- > Flange connections
- > Heat exchangers
- > Reactors, glass lined flanges
- > Uneven or distorted flanges
- > Pharmaceutical- und food processing equipment

🏆 Approvals / Compliance

- > BAM – suitable for use with fluid and gaseous oxygen
- > TA-Luft regulation and blow out safety acc. to VDI 2200
- > Specific values according to DIN EN 13555
- > FDA 21 CFR 177.1550
- > EC1935/2004 suitable for applications with food contact
- > USP Plastic Class for pharmaceutical applications

TECHNICAL DATA

| | |
|----------------------------|--|
| Material | 100% biaxial expanded PTFE (ePTFE) without fillers, without pigments or ink |
| Chemical resistance | In the entire pH range (pH 0-14, except molten alkali metals and elemental fluorine) |
| Temperature range | -268°C (-450°F) up to +270°C (+518°F), short-term +315°C (+600°F) |
| Pressure range | Vacuum up to +200bar (3000psi) depending on the installation situation* |

*Note: temperature and pressure guides cannot necessarily be used simultaneously.

Quality assurance

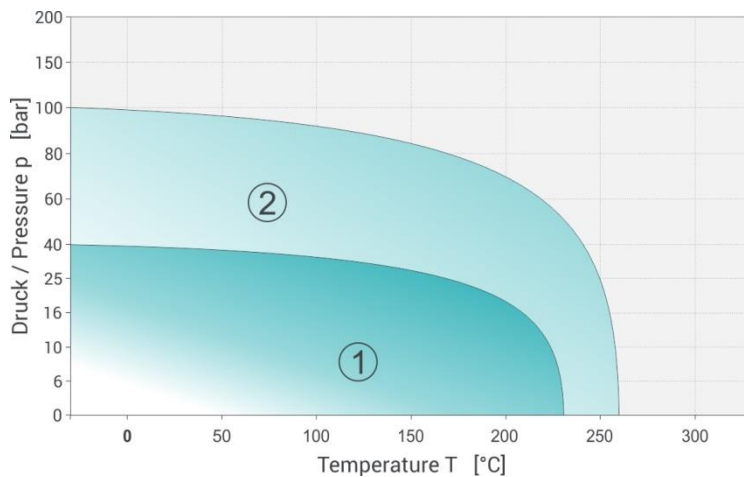
The KWO Quality Management is certified according to DIN EN ISO 9001. Our suppliers are also integrated in this quality system. We use exclusively high quality raw materials in the fabrication of our products, which provide the highest level of safety and reliability.



Available Dimensions*

| Nominal Diameter | Pressure Class |
|------------------|----------------|
| DN 10 – DN 600 | PN 10 – PN 40 |

*Other dimensions available on request.



The p-T diagram indicates the service limits considering the simultaneous influence of pressure and temperature.

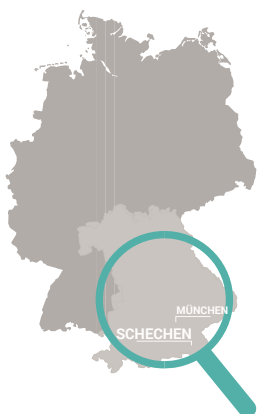
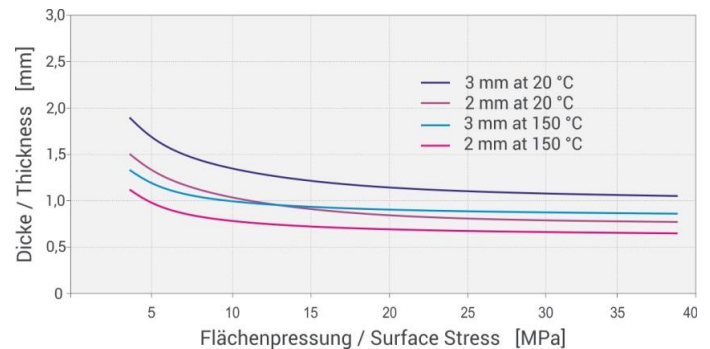
Range 1: Typical service limits

Range 2: Maximum application limits, after technical verification

MultiTex Ring, ___ x ___ x ___ mm, pieces
 (OD \varnothing) (ID \varnothing) (Thickness)

Values

| | | |
|-------------------------------|----------|--------------|
| $Q_{MIN(0,01)}$ | 28 Mpa | DIN EN 13555 |
| $Q_{S MIN(0,01)}$ | <<10 Mpa | DIN EN 13555 |
| $PQR_{(30 MPa 20^{\circ}C)}$ | 0,94 | DIN EN 13555 |
| $PQR_{(30 MPa 150^{\circ}C)}$ | 0,67 | DIN EN 13555 |



- ✓ Made in Germany
- ✓ International Presence
- ✓ Represented in over 40 countries

For detailed selection criteria, technical information, installation guideline and the relevant contact person, please visit our website: www.kwo-ptfe.de

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