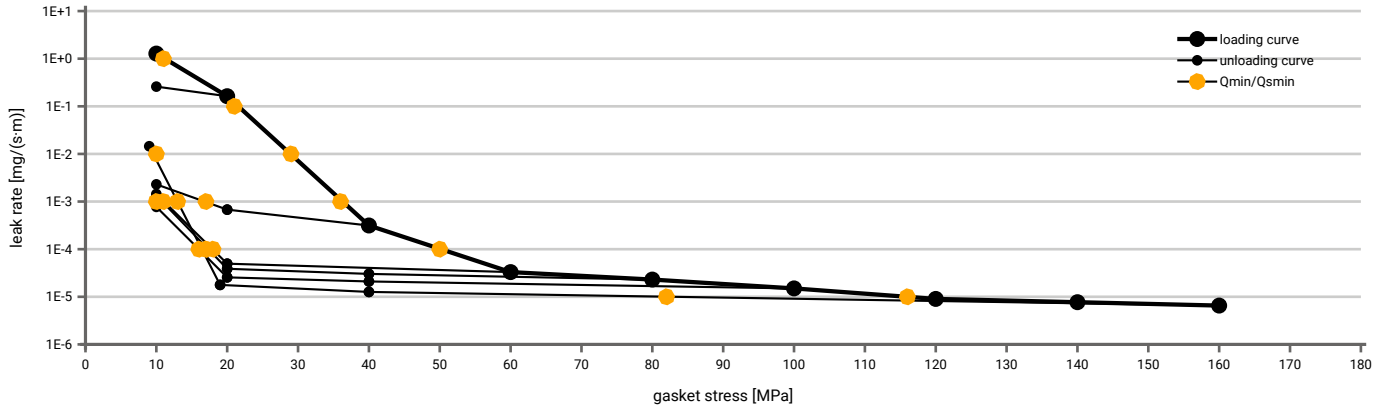
| | | |
|---|---|---|
| **Manufacturer address** | W. L. Gore & Associates GmbH, Hermann-Oberth-Straße 26, 85640 Putzbrunn, DE | According to **DIN EN 13555 2014-7** |
| **Product name** | GORE® Gasket Tape Series 500 | |
| **Product dimensions** | 131 x 111 x 3 mm (DIN EN 1514-1 1997-8) | |

**Minimum stress to seal $Q_{min(L)}$ (at assembly), $Q_{smin(L)}$ (after off-loading) for p = 40 bar (T = 23 ± 2 °C)**

| L [mg/(s·m)] | $Q_{min(L)}$ [MPa] | $Q_{smin(L)}$ [MPa] | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | $Q_A$ = 10 [MPa] | $Q_A$ = 20 [MPa] | $Q_A$ = 40 [MPa] | $Q_A$ = 60 [MPa] | $Q_A$ = 80 [MPa] | $Q_A$ = 100 [MPa] | $Q_A$ = 120 [MPa] | $Q_A$ = 140 [MPa] | $Q_A$ = 160 [MPa] |
| 1E+1 | 10 | | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-0 | 11 | | 10 | 10 | 10 | 10 | 10 | | | 10 |
| 1E-1 | 22 | | | 10 | 10 | 10 | 10 | | | 10 |
| 1E-2 | 29 | | | 10 | 10 | 10 | 10 | | | 10 |
| 1E-3 | 37 | | | 17 | 11 | 11 | 10 | | | 14 |
| 1E-4 | 50 | | | | 18 | 17 | 16 | | | 17 |
| 1E-5 | 116 | | | | | | | | | 83 |
| 1E-6 | | | | | | | | | | |
| 1E-7 | | | | | | | | | | |
| 1E-8 | | | | | | | | | | |

**Leakage - 23 ± 2 °C / 40 bar**

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|---|---|---|
| Note: the content of darkened cells was not determined respectively is unnecessary | Rev.-No.: **1** | Creation date of this sheet: **2015-07-01** |

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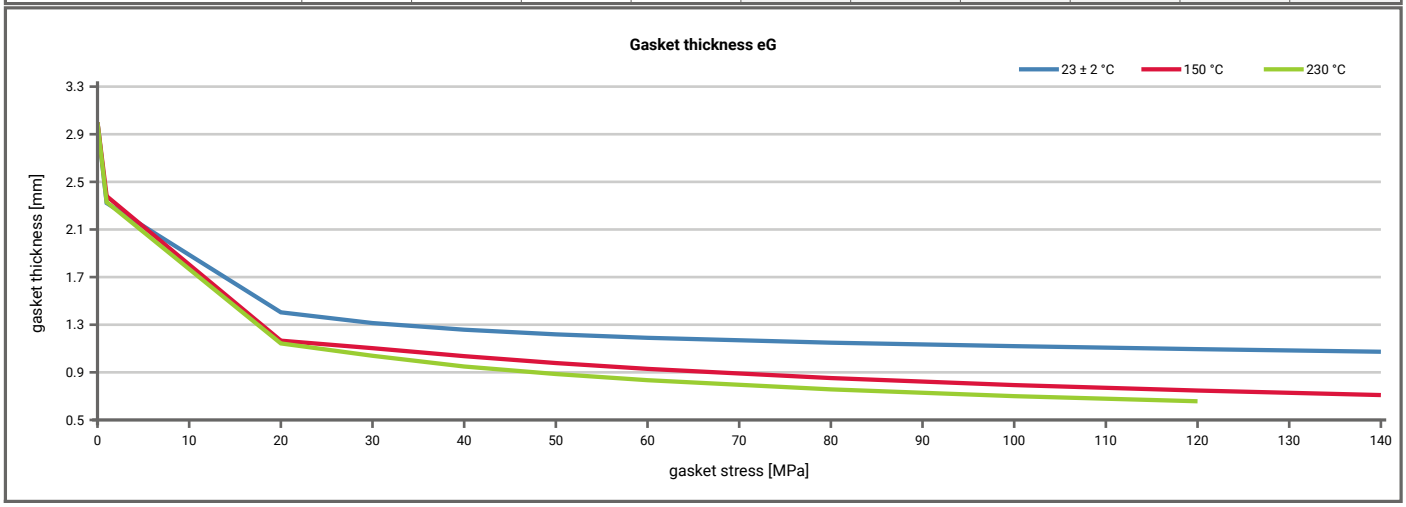
| **Manufacturer address** | W. L. Gore & Associates GmbH, Hermann-Oberth-Straße 26, 85640 Putzbrunn, DE | According to **DIN EN 13555 2014-7** |
| **Product name** | GORE® Gasket Tape Series 500 | |
| **Product dimensions** | 131 x 111 x 3 mm (DIN EN 1514-1 1997-8) | |

| **Relaxation ratio $P_{QR}$ for stiffness $C$ = 500 [kN/mm]** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Gasket stress** | **23 ± 2 °C** | | **Temperature 1 [150 °C]** | | **Temperature 2 [230 °C]** | | | | | |
| | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** | **$P_{QR}$** | **$\Delta e_{Gc}$ [µm]** |
| Stress level 1 [30 MPa] | 0.88 | 27 | 0.47 | 121 | 0.48 | 120 | | | | |
| Stress level 2 [50 MPa] | 0.90 | 40 | 0.58 | 160 | 0.50 | 192 | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| **$P_{QR}$ and $\Delta e_{Gc}$ at maximum gasket stress to be applied $Q_{smax}$** | | | | | | | | | | |
| **$P_{QR}$ at $Q_{smax}$** | 0.97 | 32 | 0.64 | 383 | 0.55 | 411 | | | | |
| **$Q_{smax}$** | 140 MPa | | 140 MPa | | 120 MPa | | | | | |

| **Sekant unloading modulus of the gasket $E_G$ [MPa] and gasket thickness $e_G$ [mm]** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Gasket stress [MPa]** | **23 ± 2 °C** | | **Temperature 1 [150 °C]** | | **Temperature 2 [230 °C]** | | | | | |
| | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** | **$E_G$ [MPa]** | **$e_G$ [mm]** |
| 0 | 0 | 3.000 | 0 | 3.000 | 0 | 3.000 | | | | |
| 1 | 0 | 2.322 | 0 | 2.380 | 0 | 2.330 | | | | |
| 20 | 337 | 1.404 | 320 | 1.166 | 241 | 1.143 | | | | |
| 30 | 495 | 1.314 | 482 | 1.103 | 379 | 1.039 | | | | |
| 40 | 641 | 1.258 | 624 | 1.036 | 480 | 0.949 | | | | |
| 50 | 780 | 1.219 | 764 | 0.978 | 580 | 0.886 | | | | |
| 60 | 915 | 1.190 | 908 | 0.929 | 685 | 0.834 | | | | |
| 80 | 1172 | 1.149 | 1194 | 0.852 | 917 | 0.757 | | | | |
| 100 | 1412 | 1.120 | 1452 | 0.793 | 1133 | 0.700 | | | | |
| 120 | 1614 | 1.095 | 1678 | 0.747 | 1372 | 0.657 | | | | |
| 140 | 1815 | 1.073 | 1861 | 0.709 | | | | | | |

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