# Technical Data Sheet

## Burachem White 9655/W

### Features

Burachem White 9655/W is a PTFE-based gasket sheet a barium sulfate filler. The material's high density creates the optimum conditions for use in applications subject to high mechanical stresses.

### Key physical characteristics (2.0 mm thick)

| | | |
|---|---|---|
| Color | | white |
| Filler | | Barium sulfate |
| Tolerances – Thickness | | DIN 28091-1 |
| ID number | | TF - M - 0 |
| Density [g/cm³] | DIN 28 090-2 | 2,90 |
| Tensile strength [MPa] | DIN 52 910 | 18,00 |
| Compressive strength σdE/16 [MPa] | DIN 52 913 | 14,00 |
| (150 °C, 30 MPa, 16 h) | | |
| Compressibility [%] | ASTM F 36 M | 3,00 |
| Resiliency [%] | ASTM F 36 J | 45,00 |
| Cold compressibility εKSW [%] | DIN 28 090-2 | 3 |
| Cold recovery εKRW [%] | DIN 28 090-2 | 1,00 |
| Hot creep εWSW [%] | DIN 28 090-2 | 40,00 |
| Hot recovery εWRW [%] | DIN 28 090-2 | 4,00 |
| Specific leakage rate [mg/(s·m)] | DIN 3535-6 | <0,015 |

### m- und y-Factors

| **Thickness** | **m** | **y (PS), y (Mpa)** |
|---|---|---|
| 1,0 | 2,8 | 2175, 15 |
| 2,0 | 2,8 | 2175, 16 |
| 3,0 | 2,8 | 2175, 17 |

**Gasket Constants acc. DIN 28090-1, AD-Merkblatt B7, DIN V 2505**

| DIN 28090 Part 1 (9/95) (DIN E 2505 Part 2) | | | | | | | | | | AD-Merkblatt B7 DIN V 2505 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $P_I$ | Dicke $H_D$ | $\sigma_{VU}$ | $\sigma_{VO}$ | m | $\sigma_{BO}$ | | | | $b_D : h_D$ | $k_0 \times K_D$ | $k_1$ |
| [bar] | [mm] | [N/mm²] | [N/mm²] | | [N/mm²] | | | | | [N/mm²] | [mm] |
| | | | | | 20°C | 100°C | 200°C | 300°C | | | |
| 10 | <= 1,0 | 15 | 180 | 1,3 | 180 | 90 | 70 | - | 10 : 1 | 15 x $b_D$ | 1,3 x $b_D$ |
| | 1,5 - 3,0 | 15 | 180 | 1,3 | 180 | 80 | 60 | - | 3,3 : 1 | 15 x $b_D$ | 1,3 x $b_D$ |
| 16 | <= 1,0 | 17 | 180 | 1,3 | 180 | 90 | 70 | - | 10 : 1 | 17 x $b_D$ | 1,3 x $b_D$ |
| | 1,5 - 3,0 | 17 | 180 | 1,3 | 180 | 80 | 60 | - | 3,3 : 1 | 17 x $b_D$ | 1,3 x $b_D$ |
| 25 | <= 1,0 | 18 | 180 | 1,3 | 180 | 90 | 70 | - | 10 : 1 | 18 x $b_D$ | 1,3 x $b_D$ |
| | 1,5 - 3,0 | 18 | 180 | 1,3 | 180 | 80 | 60 | - | 3,3 : 1 | 18 x $b_D$ | 1,3 x $b_D$ |
| 40 | <= 1,0 | 20 | 180 | 1,3 | 180 | 90 | 70 | - | 10 : 1 | 20 x $b_D$ | 1,3 x $b_D$ |
| | 1,5 - 3,0 | 20 | 180 | 1,3 | 180 | 80 | 60 | - | 3,3 : 1 | 20 x $b_D$ | 1,3 x $b_D$ |



eagleburgmann.com
sales-pg@eagleburgmann.com