



SPECIAL

## GASKET SHEETS Gambit AF-CHEMACID®

Acid and base resistant. Recommended mostly for applications in chemical sector.

GAMBIT AF-CHEMACID gasket sheet is based on Kevlar® aramide fibres, mineral fibres, and fillers bound with CSM rubber-based binder.

Classification according to DIN 28091-2:  
FA-AMZ-0

Approvals / Admissions / Certificates:  
UDT  
EC 1935/2004

**Gambit AF-CHEMACID®**  
is a registered trademark of Gambit Lubawka Sp. z o.o. or its affiliates.

**KEVLAR®**  
is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

| The values given in the table refer to gasket sheets with a thickness of 2.0 mm |     |     |
|---|-----|-----|
| Maximum working conditions  |     |     |
| Peak temperature  | °C  | 200 |
| Temperature under continuous operation  | °C  | 150 |
| Pressure  | MPa | 4   |

| Dimensions   |    |                       |        |
|--|----|-----------------------|--------|
| Standard thicknesses of sheets<br>/thicknesses above 4.0 mm are produced<br>by gluing/                     | mm | 0,5   0,8             | ± 0,1  |
|  |    | 1,0   1,5   2,0   2,5 | ± 10%  |
|  |    | 3,0   4,0   5,0   6,0 | ± 10%  |
| Standard dimensions of sheets<br>/custom dimensions available within<br>the total range of 1500 × 3000 mm/ | mm | 1500 × 1500           | ± 10,0 |

| Technical data - typical values for the thickness of 2.0 mm |               |                   |     |             |
|---|---------------|-------------------|-----|-------------|
| Density   | ± 5%          | g/cm <sup>3</sup> | 2,0 | DIN 28090-2 |
| Transverse tensile strength                                 | min.          | MPa               | 9   | DIN 52910   |
| Compressibility   | typical value | %                 | 9   | ASTM F36    |
| Elastic recovery  | min.          | %                 | 50  | ASTM F36    |
| Residual stresses 50 MPa/16 h/175°C                         | min.          | MPa               | 25  | DIN 52913   |
| INCREASE IN THICKNESS                                       |               |                   |     |             |
| 40% HNO <sub>3</sub> 23°C/18 h                              | max.          | %                 | 8   | ASTM F146   |
| 65% H <sub>2</sub> SO <sub>4</sub> 23°C/48 h                | max.          | %                 | 10  | ASTM F146   |
| Colour  | light beige   |                   |     |             |

| Calculation factors |                                   |      |         |
|---------------------|-----------------------------------|------|---------|
| ASTM F3149          | For gaskets with thickness 1,5 mm |      |         |
|                     | Tightness class<br>[mg/(s·m)]     | m    | γ [MPa] |
|                     | L <sub>1,0</sub>                  | 2,0  | 2,3     |
|                     | L <sub>0,1</sub>                  | 13,1 | 5,2     |
| EN 13555            |                                   |      |         |