

# IsoSeal D200

Specification **Flange-insulation-gasket for saturated steam and superheated steam, for systems at high temperature – cathodic corrosion protection**

|                 |                         |                          |
|-----------------|-------------------------|--------------------------|
|                 | for EN 1092-1           | for ANSI B 16.5          |
|                 | DIN 2632-2637           | ANSI B 16.47             |
| Dimensions      | DN 15 – 900             | " ½ - 40                 |
|                 | special size on request | special size on request  |
| Pressure levels | PN 6 – 160              | Class 150, 300, 600, 900 |

## Carrier material

|            |                       |
|------------|-----------------------|
| Binder     | Epoxy resin           |
| Material   | glas filament fabrics |
| Appearance | light green / green   |

|                                                               | <i>unit</i>       | <i>value</i>                              | <i>test method</i> |
|---------------------------------------------------------------|-------------------|-------------------------------------------|--------------------|
| Thickness                                                     | mm                | 4,0 – 20                                  |                    |
| Density                                                       | g/cm <sup>3</sup> | 2,0                                       | ISO 1183/A         |
| Tensile strength                                              | MPa               | 300                                       | ISO 527            |
| Residual strength                                             | MPa               | 500 / 350 / 300<br>(20°C / 180°C / 220°C) | ISO 604            |
| Bowing strength                                               | MPa               | 250 / 150<br>(120°C / 150°C)              | ISO 178            |
| Operating temperature                                         | °C                | 200                                       | IEC 60216          |
| Maximum temperature                                           | °C                | 220                                       | IEC 60216          |
| Low temperature                                               | °C                | > - 60                                    | (more on request)  |
| Breakdown voltage<br>(at 90° parallel to layering)            | kV                | 60                                        | IEC 60243          |
| Dielectric strength<br>(1min-test-voltage,<br>3 mm thickness) | kV/mm             | 13                                        | IEC 60243          |
| Waterabsorption                                               | mg                | 30                                        | ISO 62/1           |

## Gasket

|            |            |
|------------|------------|
| Material   | Graphite   |
| Appearance | anthracite |

|                       | <i>unit</i>       | <i>value</i> | <i>test method</i> |
|-----------------------|-------------------|--------------|--------------------|
| Thickness             | mm                | 1,5          |                    |
| Density               | g/cm <sup>3</sup> | 1,25         | DIN E28090-2       |
| Residual stress       | MPa               | > 45         | DIN 52913          |
| Compression           | %                 | > 20         | ASTM F36A          |
| Recovery              | %                 | > 12         | ASTM F36A          |
| Ash residue           | %                 | ≤ 2          | DIN 51903          |
| Chloride content      | ppm               | ≤ 50         |                    |
| Min. surface pressure | MPa               | 15           |                    |
| Max. surface pressure | MPa               | 120          |                    |
| Max. temperature      | °C                | 500          |                    |

**Comments:** Gasket carrier made of **silicon resin Phlogophit Glimmer** have a very good resistance against most chemicals, fuels, lubricates and water.  
**Expanded graphite** is an excellent sealing material with no media restriction. It is aging and temperature resistant and is approved for temperature from – 60 °C to + 500 °C.  
 Exception: strong oxidising acids

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