



# FFKM 3202 75

## Perfluoro elastomer

Standard Colour: **Black**

Service temperature: -10°C to +230°C continuous  
260°C /1000 hrs

FFKM 3202 75±5 shA, upper chemical resistance grade. Developed for very demanding sealing applications. Hot amines and steam resistant.

The compound is also used in food and pharmaceutical industries as well as semiconductor wet processes. Meets the extractive requirements of FDA 21 CFR 177.2600 & 177.2400, EC1935/2004 (UE N°10/2011 Regulation), and 3A sanitary.

| Physical properties                | Unit              | Test method | Test result |
|------------------------------------|-------------------|-------------|-------------|
| Hardness Shore A                   | Shore A           | ASTM D2240  | 76          |
| Tensile strength                   | N/mm <sup>2</sup> | ASTM D412   | 23          |
| Elongation                         | %                 | ASTM D412   | 180         |
| Specific gravity                   | g/cm <sup>3</sup> | ASTM D412   | ±0.02       |
| Modulus 100%                       | N/mm <sup>2</sup> | ASTM D412   | 12          |
| <b>Compression set</b>             |                   |             |             |
| 70hrs at 200°C                     | %                 | ASTM D395/B | 17          |
| <b>Low temperature flexibility</b> |                   |             |             |
| TR-10°C                            |                   | ASTM D1329  | -2          |

Changes to properties after ageing acc. To ASTM D471 and ASTM D573

| Test parameter medium            | Hardness % | Tensile strength % | Elongation % | Volume % |
|----------------------------------|------------|--------------------|--------------|----------|
| <b>Air</b>                       |            |                    |              |          |
| 70hrs at 225°C                   | -1         | +5                 | +29          |          |
| <b>Steam immersion</b>           |            |                    |              |          |
| 168 hrs at 204°C                 | +6         | -15                | +23          | +1       |
| <b>Ethylenediamine immersion</b> |            |                    |              |          |
| 72hrs at 100°C                   | -4         | -35                | +13          | +6.5     |
| <b>N-Methyl Diethanolamine</b>   |            |                    |              |          |
| 168hrs at 150°C                  | -2         | -22                | -2           | +2       |

The results displayed in this data sheet were obtained on standard test specimens following standard test procedures. Comparisons with results obtained on finished products, e.g. O-Rings, could lead to other results due to differences in geometry and manufacturing processes. These other results do therefore not automatically contravene the data of this sheet. The evaluation of parts prior to their use in order to ensure their suitability for the intended application is subject to the end user's responsibility.