

# 149001013

## LOW TEMPERATURE RESISTANCE

The FFKM **149001013** Compound low temperature products enhance existing capabilities to withstand chemical aggression and high pressure in extremely cold and harsh environments. These products are engineered to maintain performance and reliability, ensuring durability and safety under the most demanding conditions.

The FFKM **149001013** Compound is a unique FFKM designed for applications requiring excellent chemical resistance at low temperatures (down to -46 °C) and high-pressure values.

## 149001013 FFKM 90 black LT46

Rev. 04

### GENERAL CHARACTERISTICS

|                              |                      |
|------------------------------|----------------------|
| <b>General Applications:</b> | Low Temperature      |
| <b>Colour:</b>               | Black                |
| <b>Temperature Range:</b>    | From -46°C to +220°C |
| <b>Curing System:</b>        | Peroxide             |
| <b>Compliances:</b>          | Norsok M710          |

### PHYSICAL AND MECHANICAL PROPRIETIES

| Property         | Test STD            | Unit              | Value       |
|------------------|---------------------|-------------------|-------------|
| Density          | DIN EN ISO 1181-1 A | g/cm <sup>3</sup> | 1.92 ± 0.03 |
| Hardness         | DIN EN ISO 868      | Shore A           | 90 ± 5      |
| Tensile Strength | DIN 53504 S2        | MPa               | > 10        |
| Elongation       | DIN 53504 S2        | %                 | > 100       |

### LOW TEMPERATURE RESISTANCE

| Property | Test STD   | Unit | Value |
|----------|------------|------|-------|
| TR10     | ASTM D1329 | °C   | < -30 |

### COMPRESSION SET TESTS

| Parameters  | Test STD  | Unit | Value |
|-------------|-----------|------|-------|
| 48h @ 200°C | ISO 815-1 | %    | < 26  |
| 72h @ 200°C | ISO 815-1 | %    | < 33  |

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**Key**

A1 → <10% Swelling  
 A2 → <25% Swelling  
 A3 → <35% Swelling

**Notes**

**Chemical Resistance**

| Chemical         | Rating |
|------------------|--------|
| Aldehydes        | A1     |
| Alcohols         | A1     |
| Alkalis          | A1     |
| Amines (RT)      | A2     |
| Esters           | A1     |
| Ethers           | A1     |
| Hot Amines       | A3     |
| Hydrocarbons     | A1     |
| Inorganic Acids  | A1     |
| Ketones          | A1     |
| Organic Acids    | A1     |
| Strong Oxidezers | A2     |
| Sour Gas         | A3     |
| Water/Steam      | A3     |

**AGEING PROPERTIES**

| Properties       | Standard: Unit | Value |
|------------------|----------------|-------|
| Hardness         | Shore A        |       |
| Tensile Strength | %              |       |
| Elongation       | %              |       |
| Volume           | %              |       |
| Weight           | %              |       |

| Properties       | Standard: Unit | Value |
|------------------|----------------|-------|
| Hardness         | Shore A        |       |
| Tensile Strength | %              |       |
| Elongation       | %              |       |
| Volume           | %              |       |
| Weight           | %              |       |

| Properties       | Standard: Unit | Value |
|------------------|----------------|-------|
| Hardness         | Shore A        |       |
| Tensile Strength | %              |       |
| Elongation       | %              |       |
| Volume           | %              |       |
| Weight           | %              |       |

| Properties       | Standard: Unit | Value |
|------------------|----------------|-------|
| Hardness         | Shore A        |       |
| Tensile Strength | %              |       |
| Elongation       | %              |       |
| Volume           | %              |       |
| Weight           | %              |       |

**Disclaimer**

*Tests performed on test slabs. Temperatures, applications, and indications are meant as basic suggestions and valid for static applications with no other specific media and or conditions.*