



## Vi 480 – redefinition of border areas

### Special FKM for hot water or water vapour applications

Modern FKM (FPM/fluoroelastomer) sealing compounds can be used today in situations where they are exposed to many different kinds of aggressive media. But hardly any operating medium subjects elastomer seals to such problems as water and water vapour, especially at high temperatures. In practice the result is often reciprocal action between aggressive media, the formation of water compounds or hot water. In any case it has been an exclusion criterion for the use of traditional FKM sealing materials so far.

**While it has generally been true in the past to say that FKM does not offer resistance to hot water or water vapour, Vi 480 – a special compound developed by COG – now calls for this statement to be revised.** Vi 480 has been specially developed for use in applications where not only a high degree of resistance to chemical influence but also resistance to hot water and water vapour is required. Under these conditions most traditional FKM materials prove inadequate, as they suffer an extreme increase in volume. Specially designed for use in such situations, the FKM compound Vi 480 moreover shows an extremely low compression set even under these difficult conditions, offering the ideal basis for long-term leakage-free use.

## Properties of Vi 480

- Excellent chemical resistance
- Very good resistance to hot water and water vapour
- Low compression set
- Broad operating temperature range from  $-15^{\circ}\text{C}$  to  $+200^{\circ}\text{C}$
- Excellent resistance to biogenic and traditional fuels
- Good resistance to solvents
- Good mechanical properties
- Universal all-rounder

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# Vi 480 – specially conceived for use in extreme conditions

The FKM special compound Vi 480 is suitable for use in all situations where the sealing materials come into contact with hot water or water vapour as well as with aggressive media like acids or alkalis. This comprises use in connection with fittings, pipes, conduits, valves, pumps and drives, as well as with other applications in power station and process technology.

## Data sheet

COG-No.:	Vi 480
Basic elastomere:	Fluoro rubber (FKM)
Colour:	Black
Temperature range:	From -15 °C to +200 °C

## Rubber technology data

Properties	Unit	Value	Testing methods
Hardness:	Shore A	80 ± 5	DIN 53 505
	°IRHD, CM	82 +3/-8	DIN ISO 48
Tension at 100 %:	MPa	14	DIN 53 504
Tensile strength:	MPa	20	DIN 53 504
Ultimate elongation:	%	140	DIN 53 504
Tear strength:	kN/m	12	DIN ISO 34-1, B(a)
compression set (22 h/200 °C)	%	20	DIN ISO 815

The stated values do not replace the official datasheet. They are without legally binding effect and exclude liability for damages of whatever kind.

**The needs of our customers define how we act in all areas. This means we develop new ideas and products quickly, and in a market- and goal-oriented manner – for the benefit of our customers. Please refer to [www.cog.de](http://www.cog.de) or contact us directly for more information. Let's discuss your needs.**

## Further information

- **Comparable with FFKM in some areas**
- **Capable of resistance even where reciprocal action occurs**
- **Low compression set**

**Also offers excellent resistance to:**

- **various fuels and mineral oils**
- **acids and various lyes / alkaline substances**

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