

Vi 470 | FKM

Resistant to biogenic media

Without metal oxides



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SEAL TECHNOLOGY



Vi 470 – The FKM solution for biogenic media

From ship engines to machines used in the chemical industry – To ensure improved environmental sustainability, biologically degradable fuels and hydraulic oils are being used increasingly more often, instead of mineral oil-based products. However, for more sensitive system components such as elastomer seals, biogenic mediums present a particular challenge. Specially for these demanding applications, COG offers the high-performance FKM material Vi 470, which is ideal for a broad range of applications.



Performance highlights

- Very good media resistance
- Particularly resistant to biogenic media
- Low temperature flexibility to -20 °C
- Good resistance to hydrocarbons such as oils, fats and fuels
- Low gas permeability
- Good resistance to vapour
- Very good chemical resistance

Flexible in its application, resistant in use

As a high-performance special material, Vi 470 is ideal for a broad range of operating temperatures. Furthermore the compound is suitable in applications where high chemical and media resistance is required.

Vi 470 therefore commends itself for applications in which components must not only meet the high demands of biogenic mediums and specific chemicals, but must also reliably withstand extraordinary thermal loads.

- Peroxide-cured material without metal oxides
- Greater fluorine content than conventional FKM compounds, and therefore demonstrates especially good long-term resistance to biogenic mediums
- Greater low temperature flexibility than comparable compounds: operating temperature range down to -20 °C

Material profile

COG-No.:	Vi 470
Basic elastomere:	Fluorinated rubber (FKM)
Colour:	black
Temperature range (air):	from -20 °C to +200 °C

Rubber technology data

Properties	Unit	Specimen	
		Value	Testing methods
Hardness	Shore A	70±5	DIN ISO 7619-1
Hardness	°IRHD, CM	70±5	DIN ISO 48
Tensile strength	MPa	> 12	DIN 53 504
Elongation	%	> 250	DIN 53 504
TR-10	°C	-15	ASTM D 1329
Compression set (24h/200 °C)	%	< 25	DIN ISO 815

The indicated values do not replace the official data sheet. They are not binding and exclude all liability for damage of any kind.

