



Vi 840 – A breakthrough in the valves sector and gas industry

High performance sealed and delivered: the FKM compound Vi 840 has been successfully tested according to DVGW DIN EN 682 (type GBL) and has a low temperature flexibility of down to $-46\text{ }^{\circ}\text{C}$, which means it therefore fulfils the requirements of DIN EN 14141. Furthermore, this special FKM with its Norsok Standard M-710 and ISO 23936-2 certifications demonstrates excellent resistance to extreme changes in pressure, and is therefore ideal for use in applications where explosive decompression occurs.

The elastomer innovation Vi 840 meets central industry requirements of having a suitable level of low temperature flexibility, and conforms to the DIN EN 14141 standard. With a TR-10 value of $-40.1\text{ }^{\circ}\text{C}$, COG's development is suitable for use at temperatures of right down to $-46\text{ }^{\circ}\text{C}$, therefore fulfilling the important API 6A and 6D standards. A further plus point of this material is its resistance in accordance with DVGW DIN EN 13787. In short: the Vi 840 FKM compound is a real highlight for the valves sector and a top compound for the gas industry.



Vi 840 at a glance

- Excellent material for use in the oil and natural gas industry
- Certification tested according to DVGW requirements: DIN EN 682 test (type GBL) and DIN EN 13787
- Fulfils: DIN EN 14141 and API 6A and 6D standards
- Norsok Standard M-710 and ISO 23936-2
- Extremely wide operating temperature range, from $-46\text{ }^{\circ}\text{C}$ to $+200\text{ }^{\circ}\text{C}$
- Excellent low temperature flexibility: TR-10 value $-40.1\text{ }^{\circ}\text{C}$
- Very good low temperature compression set

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Vi 840 – with many approvals ensuring versatile flexibility

With the Vi 840 FKM compound, COG proves its materials expertise in stunning fashion: the Vi 840 compound performed excellently in the DVGW DIN EN 682 test (type GBL). It was clearly able to exceed the target values for compression set. When it comes to low temperature flexibility, this COG development sets new standards.

All components of this FKM material fulfil the DVGW DIN EN 682, DIN EN 14141 and DIN 13787 standards, as well as the valves and valve fittings industry's API 6A and 6D standards. The innovative Vi 840 FKM compound is equally suitable for use in pig traps, gate valves, ballcocks and other regulating valves – a true all-rounder for applications in the oil and gas industries. As a reliable sealing material against explosive decompression, tested to NORSOK Standard M-710 and ISO 23936-2, Vi 840 also scores highly thanks to its broad range of possible applications.



Data-Sheet

COG-No.:	Vi 840
Basic elastomere:	Fluoro rubber (FKM)
Colour:	Black
Temperature range (air):	From -46 °C to +200 °C
Approvals/Certifications:	DVGW DIN EN 682 (type GBL), DVGW DIN EN 13787, NORSOK Standard M-710, ISO 23936-2, DIN EN 14141

Rubber technology data

Properties	Unit	Specimen	
		Value	Testing methods
Hardness	ShoreA	80 ± 5	DIN ISO 7619-1
Hardness	°IRHD, CM	80 ± 5	DIN ISO 48
Tensile strength	MPa	> 15	DIN 53 504
Elongation	%	> 160	DIN 53 504
Compression set (24 h/200 °C)	%	< 15	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.

EXCELLENT TEST RESULTS

Compression set	Unit	Target value	Actual value
72 h/23 °C	%	15	7.6
24 h/70 °C	%	20	7.6
72 h/-5 °C	%	40	12.8
72 h/-15 °C	%	50	16.3

APPROVALS

- DVGW DIN EN 682 test (type GBL)
- DVGW DIN EN 13787
- NORSOK Standard M-710
- ISO 23936-2
- Conformance to DIN EN 14141
- Conformance to API 6A & 6D

SPECIAL FEATURES

- TR-10 Wert = -40.1 °C
- Applicable down to -46 °C

