



# Product Application Guide

Sealings for critical  
Oil & Gas / H<sub>2</sub> application



## Application Description

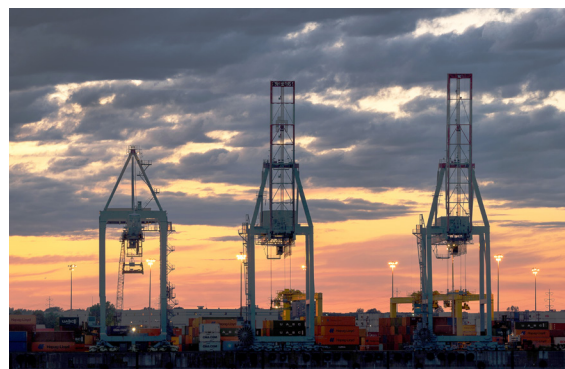
Our products perform in pumps and valves in refineries and petrol processing plants as well as in the oil field and pipelines in OEM products and for maintenance. All our recommended materials are RGD compatible and tested.

## Our Added Values

- GP online configurator / calculator
- GP online stock inquiry
- Very short delivery times
- RGD, sour gas and H<sub>2</sub> tested materials
- Wide temperature range -55 - 200 [°C]
- Excellent chemical resistance

## Product Description

Sealing materials are generally very sensitive to the oil and gas components resulting in extensive swelling, chemical degradation and rapid gas decompression. O-Rings and rubber seals need to prove high life expectancy as well as extended trouble-free operation. GITIS has developed specific materials and processing parameters to guarantee the product integrity.



## Sealing Your Success

**Disclaimer:** In general, the enclosed information, recommendations or advice are given in a good faith. GITIS srl gives no warranty that the same results can be obtained in other laboratories using different condition of preparation and evaluation of the samples.





## GITIS OIL & GAS/H2 - MATERIALS GUIDE

Material	Polymer	Shore A	Colour	TR10 [°C]	Range Temp.	ISO 23936	NACE	O2	H2	CO2	NH3	EN549/682
HB090LE1	HNBR	90	black	-38	-50 - 160 °C	x			x			
VB090LE3	FKM	90	black	-30	-40 - 200 °C	x	x					x
VB090LE1	FKM	90	black	-40	-50 - 200 °C	x	x		x			
VB090LT3	FKM	90	black	-46	-55 - 200 °C	x						
VB090LE0	FKM	90	black	-25	-35 - 200 °C	x	x					
VB090ER0	FKM	90	black	-7	-15 - 200 °C	x						
VB090FFL	FFKM	90	black	-30	-40 - 230 °C	x						
UHMW-PEW	UHMW-PE	65	white	-200	-200 - 85 °C			x	x		x	





**GITIS** specializes in the development, manufacturing and distribution of high-quality O-rings and seals for all applications with special requirements regarding temperature and media resistance, service life and product quality. Through innovation, technology and high reliability, **GITIS** has become the reliable partner for markets such as automotive, oil and gas, chemical, food and pharma.

With three plants in Italy and China as well as a development office in Germany, we can implement the experience of 40 years together with our customers in strategic growth sectors.

### Sealing Your Success



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