



# VERMANITE®

AN ELASTOMER THAT PERFORMS IN EXTREME CONDITIONS

## VERMANITE®

### OPERATING TEMPERATURE RANGE:

14 °F to 446 °F (-10 °C to 230 °C)

VERMANITE® is a proprietary range of FFKM elastomers from Rubberatkins that have become a game-changer against the current material offerings within the industry.

The VERMANITE® brand of elastomers can be tailored to meet the most demanding environments; from ultra-low temp of -40 °F to ultra-high temp of 650 °F, including long term resistance to highly aggressive chemicals.

VERMANITE® can be formulated by Rubberatkins to exceed requirements and perform in some of the most challenge-driven, hostile places in the world.

## VERMANITE® ULTRA

OPERATING TEMPERATURE RANGE: 14 °F to 650 °F (-10 °C to 343 °C)

VERMANITE® ULTRA is the ultimate high-temperature resistant FFKM material from Rubberatkins.

## VERMANITE® LT

OPERATING TEMPERATURE RANGE: -22°F to 446°F (-30°C to 230°C)

VERMANITE® LT is the Rubberatkins low-temperature FFKM variant.



## FEATURES

- Exceptional physical property retention
- Steam resistant and compatible with most oilfield fluid environments
- Excellent chemical resistance
- High sour gas resistance
- Rapid gas decompression (RGD) resistant

## BENEFITS

- Unrivalled sealing integrity
- Proven field history
- Increases life expectancy
- Minimises installation and intervention costs
- Reduces NPT

## TYPICAL APPLICATIONS

- Steam injection and stimulation applications
- Geothermal
- EOR and SAGD
- Packer/bridge plug elements
- O-rings and seal stacks
- BOP and wellhead seals
- Surface pressure control seals
- Custom Parts

## APPROVED UNDER

- API6A
- ISO 23936-2 Annex B
- NACE TM0187
- NORSOK M710





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## VERMANITE® - TYPICAL PROPERTIES - AMBIENT

ELASTOMER	VERMANITE® 1961/58	VERMANITE® Ultra 1821/58	VERMANITE® LT 1960/58	
Property	Ambient	Ambient	Ambient	Test Standard
Hardness, IRHD	91	86	92	ISO 48
Tensile strength, MPa	22.5	19.8	13.5	ISO 37
Elongation at break, %	127	112	133	ISO 37
50 % Modulus, MPa	9.9	9.7	4.8	ISO 37
100 % Modulus, MPa	19	18.8	9.2	ISO 37
Compression set, % (22 hrs, 200 °C)	11	24	19	ISO 815-1

## VERMANITE® ULTRA - 650 °F STEAM EXPOSURE, 672 HOURS

ELASTOMER	VERMANITE® Ultra 1821/58	VERMANITE® Ultra 1823/58	
Change In:	Value	Value	Test Standard
Hardness, IRHD	-2	-2	ISO 48
Tensile strength, %	-2	7	ISO 37
Elongation at break, %	4	2	ISO 37
100 % Modulus, %	-2	6	ISO 37