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RUBBERATKINS

EXPERIENCE ELASTOMER EXCELLENCE

About Us

For over 35 years, Rubberatkins has delivered high-performance elastomeric solutions to the oil and gas sector, from upstream exploration and development to midstream processing and downstream refining. Rubberatkins materials are trusted in the world's most extreme environments, where failure is not an option. Whether withstanding corrosive chemicals, intense pressures, or extreme temperatures, Rubberatkins seals, gaskets, and custom components help keep critical energy infrastructure running efficiently and safely.

The company's reputation for solving the unsolvable is no accident. Rubberatkins is an industry leader in in-house Elastomer Innovation, combined with novel R&D and precision manufacturing capabilities, has led to this success. Rubberatkins doesn't just supply products, Rubberatkins engineers performance.

Central to this approach is a strong commitment to long-term, collaborative relationships with partners across the energy value chain. Rubberatkins works closely with operators, service companies, and equipment manufacturers to co-develop solutions tailored to specific operational challenges.

Proven in Energy. Driven by the Future.

While solidly rooted in oil and gas, Rubberatkins also supports the semiconductor, hydrogen generation, and space exploration markets, meeting their demands for high-purity, high-performance, and highly durable materials.

For semiconductor fabrication, the company applies its widely regarded material expertise to develop ultra-clean, low-particulate elastomers that meet the stringent demands of wafer processing and chip manufacturing.

In the expanding hydrogen economy, Rubberatkins is at the forefront of innovation, developing an advanced membrane material to resist hydrogen embrittlement and increasing electrolyser performance.

Meanwhile, in the demanding arena of space exploration, the company is pioneering new polymer technologies designed to withstand the intense stresses of launch, the harsh vacuum of space, and extreme thermal fluctuations. It's an ambitious frontier, but one that Rubberatkins has confidently embraced and is actively advancing in.

Rubberatkins is proud to receive the prestigious King's Award for Enterprise in International Trade, recognizing the company's exceptional global growth and commitment to delivering world-class elastomeric solutions to customers across international markets.

Founded in 1988, Rubberatkins now employs around 200 people worldwide, with manufacturing and sales operations in Aberdeen and Houston, and sales offices in Calgary, Dubai, and Singapore. Rubberatkins is a world leader in advanced elastomeric engineering, specialising in the design and manufacture of high-performance, non-metallic components from deep down in a well to satellites in space.

With a focus on innovation and customer-driven solutions, Rubberatkins is dedicated to advancing safety, performance, and sustainability.



The King's Award for Enterprise is internationally recognised as a hallmark of business excellence. This award is a testament to our team's commitment to pushing the boundaries of material science and engineering. We are proud to represent British innovation on the global stage with a portfolio of 26 international patents and various trademarks, Rubberatkins is continually expanding its intellectual property base and export markets." **Co-Founder and Chairman of Rubberatkins, Nick Atkins.**

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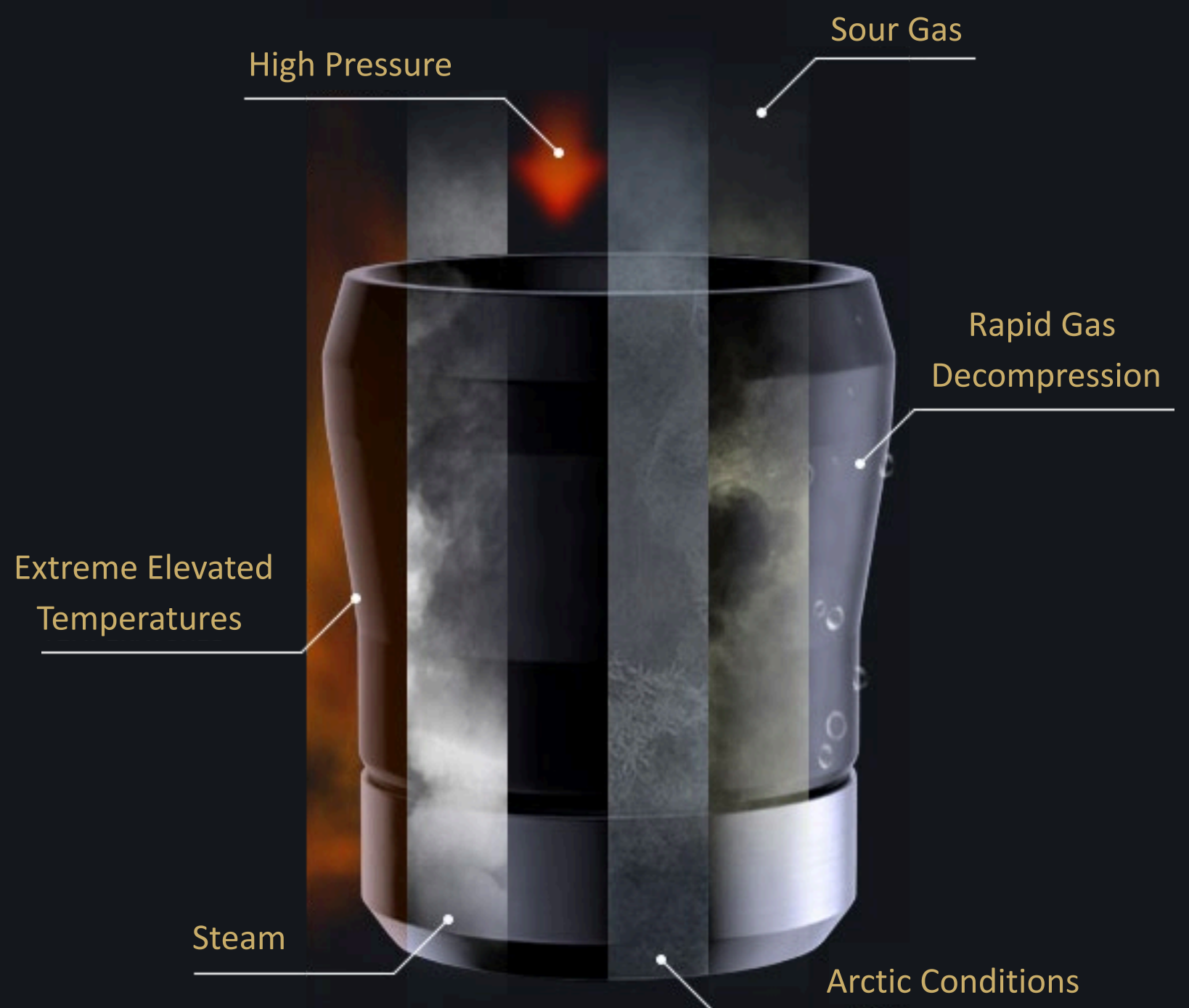
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BESPOKE HIGH-PERFORMANCE PRODUCTS

Many of the components we manufacture originate as R&D projects which are either developed internally or in collaboration with customers to address a specific need or requirement.

With nearly four decades of elastomer experience, material expertise, and design knowledge, we produce high-performance components that consistently meet the required specifications.

In addition to our tailored development work, we also offer custom moulding to customer specifications or directly from existing drawings



BESPOKE MATERIALS

Rubberatkins continually push the application boundaries as we develop unique and novel materials to provide sealing solutions in environments that were previously no-go areas.

To date, Rubberatkins has developed over 2,000 formulations to satisfy even the most challenging physical and environmental applications.

In addition to the standard NBR, HNBR, and FKM materials, our experience, and material knowledge have resulted in the development of the range of own branded high-performance elastomers from Rubberatkins.

HIGH-VOLUME PRODUCTION

Leveraging advanced manufacturing processes and scalable production capabilities, we are able to deliver high-volume orders without compromising on quality.

Our production systems are designed for efficiency, consistency, and reliability, ensuring that both standard and custom elastomer products meet tight tolerances and rigorous performance standards even at large-scale output.



VERMANITE®

AN ELASTOMER THAT PERFORMS IN EXTREME CONDITIONS

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

VERMANITE®

OPERATING TEMPERATURE RANGE:
(14 °F to 446 °F) - (-10 °C to 230 °C)

VERMANITE® ULTRA

The Rubberatkins ultimate high temperature resistant FFKM material.

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

VERMANITE® LT

The Rubberatkins low-temperature FFKM variant

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



SULFANITE®

SOUR GAS RESISTANCE UP TO 40 % H₂S

The SULFANITE® material range has been subjected to API, ISO, and NACE testing to confirm the material integrity and its resistance to sour gas.

SULFANITE® materials have been developed to meet aggressive environmental conditions as well as consideration of the various product types and applications the materials will be subjected to.

SULFANITE®

10% H₂S – MODIFIED HNBR ELASTOMER RANGE:
(-4 °F to 212 °F) - (-20 °C to 100 °C)

SULFANITE® ULTRA

40% H₂S – MODIFIED FKM ELASTOMER RANGE:
(-4 °F to 350 °F) - (-20 °C to 177 °C)

SULFANITE® LT

LOW TEMPERATURE RANGE:
(-22 °F to 350 °F) - (-30 °C to 177 °C)



THERMANITE®

AN ELASTOMER THAT PERFORMS IN EXTREME CONDITIONS

THERMANITE® is an industry leading proprietary material developed by Rubberatkins for prolonged resistance to steam and hydrocarbons for use in enhanced heavy oil recovery (EHOR) and steam-assisted gravity drainage (SAGD). These materials offer sealing solutions at extreme temperatures up to 600 °F.



DISSOLVANITE®

DISSOLVANITE® is a range of oil-resistant materials that have been designed to degrade over time with exposure to water and aqueous-based brines.

Rubberatkins can alter the formulation of DISSOLVANITE® materials to change the rate of degradation as required. This allows DISSOLVANITE® to be used in a large number of different applications.



BREANITE®

LOW TEMPERATURE SEALING WITH 20% SOUR GAS RESISTANCE

BREANITE® is a revolutionary new base resistant elastomer material developed to excel where others fail. Engineered with advanced technology, BREANITE® offers exceptional low temperature sealing performance in 20% Sour Gas environments.

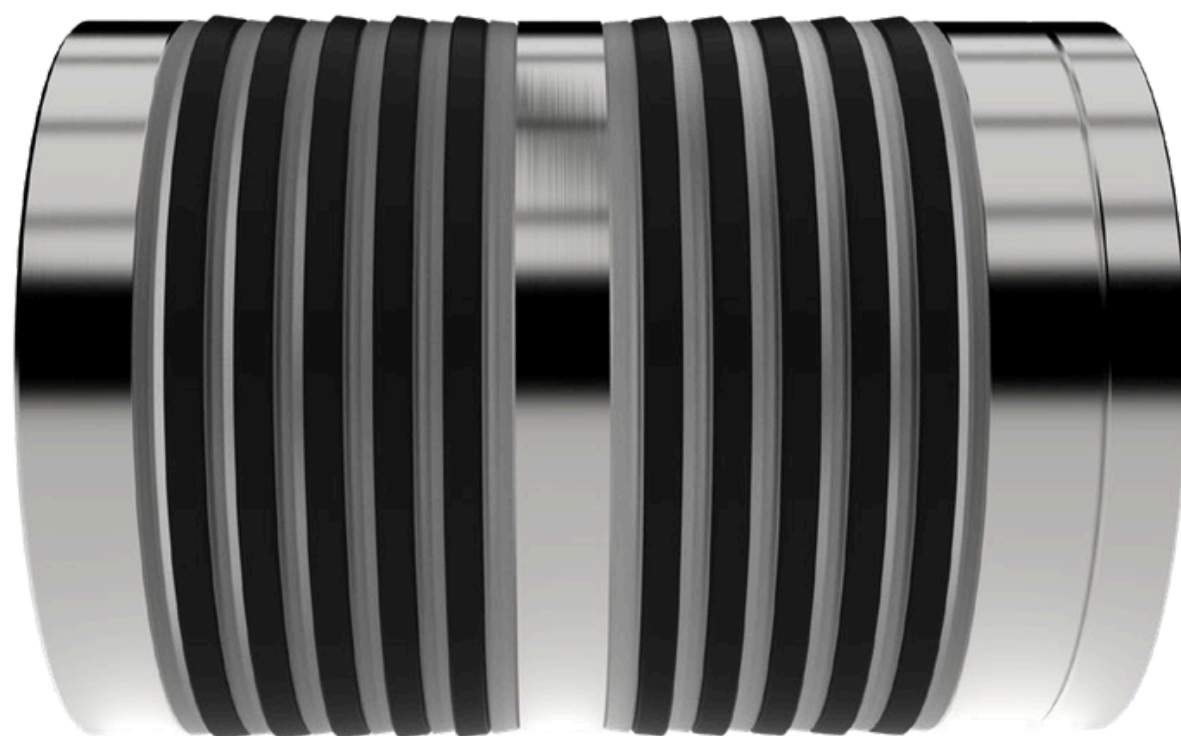
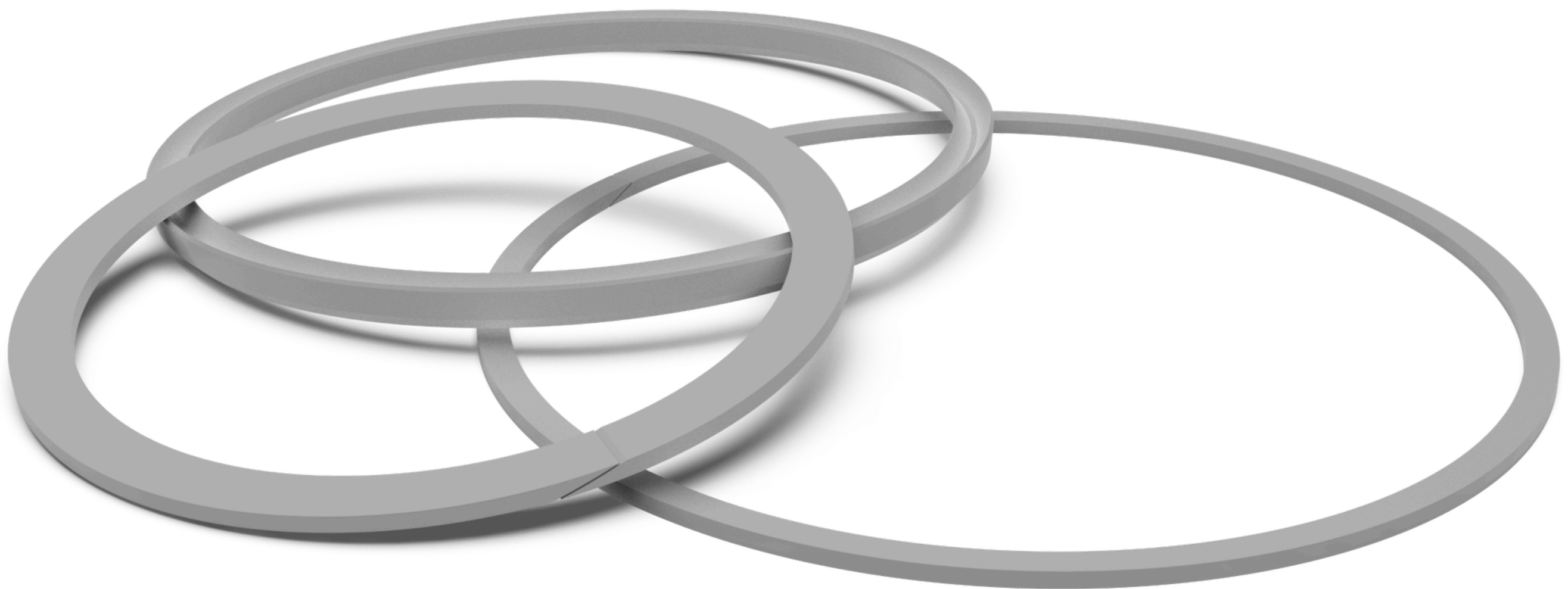


ASTRONITE®

ASTRONITE® elastomers are engineered to meet the demanding challenges of the space sector, with applications ranging from propulsion components to profile seals that must operate at extremely low temperatures. Unlike conventional elastomers, ASTRONITE® eliminates carbon black reinforcement incompatible with many space requirements while still delivering the mechanical strength needed for mission-critical performance.



THERMAL PLASTICS							
PROPERTY	PEEK™			PEKK			Hytrel®
	Unfilled	30% Glass Filled	30% Carbon Filled	Unfilled	30% Glass Filled	30% Carbon Filled	Unfilled
Tensile strength (MPa)	98	185	265	110	185	260	50
Elongation at break (%)	45	2.8	1.7	12.5	2.5	2.5	>300
Melting point (°C)	343	343	343	331	372	396	245
Heat deflection temp (°C)	152	328	336	175	358	369	50
Specific gravity (g/cc)	1.3	1.51	1.4	1.3	1.5	1.41	1.26





PLASTIC MANUFACTURING

Rubberatkins have introduced a range of **thermoplastics** to complement our high-performance sealing products.

Our thermoplastic materials enhance the **anti-extrusion properties** of our elastomeric seals in extreme high pressure and high temperature applications.

Rubberatkins currently offer four primary thermoplastic compounds **PEEK™**, **PEKK**, **PEKEKK** and **Hytrel®** in unreinforced and reinforced grades.

These compounds are designed for **performance and longevity** in high temperature and demanding environments.

At Rubberatkins we will work with you to ensure the **appropriate material selection** for the application. Engineered designs, advanced manufacturing, prototyping, product and material testing.

We utilise this, as well as **custom moulding** and **precision machining** of high-performance plastics, to provide our customers with robust solutions.

KEY CAPABILITES:

- Engineered sealing solutions
- Prototyping and custom products
- Injection and machining manufacturing methods
- High-volume production
- Optimised plastic-to-metal bonded products
- CAD software utilized to optimise design and process for minimal stress and optimal performance
- Multiple material testing capabilities to ensure appropriate compound selection
- All capabilities in-house



PEEK™

- Most ductile performance of PEKK range
- Broad chemical resistance
- High temperature capabilities >572 °F (300 °C)

PEKK

- Outperforms more common grades
- High compression strength and heat deflection
- Broad chemical resistance
- High temperature capabilities >572 °F (300 °C)

PEKEKK

- Best performing plastic out of PEEK range
- Broad chemical resistance
- Superior modulus and compression properties to PEEK™ and PEKK
- High temperature capabilities >662 °F (350 °C)

Hytrel®

- Where strength and durability are required in a flexible component.
- Flex-resistance especially in low temperatures
- Increased heat-aging resistance



PRODUCT CATEGORIES

A WIDE RANGE OF HIGH-PERFORMANCE PRODUCTS



1. WELL CONSTRUCTION & COMPLETIONS

- Liner Hangers & Well Construction:
- Liner Top Elements
- HP Cups
- Darts
- Cement Wipers
- Expandable Casing Patch Seals
- F-Cup Testers
- Thread Testers

Completions & Well Intervention:

- Hercules Elements – Taurus – Donuts – 2 Stage 1 Piece Elements
- Frac Elements – HP Cups – Frac Cups – HD Cups – Cup Mandrels
- Settable Cups
- Bonded Seals
- Chevron Stacks
- O-Rings, T-Seals, S-Seals, Custom Gland Seals

2. FRAC OPERATIONS

- Frac Seals:
- Multi-Set Frac Elements
- Multi-Set Frac Cups
- Frac Mandrels
- Multi-Set Acid Frac Cups

3. WELLBORE CLEANUP

- HP Cups
- Frac Cups
- HD Cups
- Hercules Elements

4. DRILLING & MWD/LWD

- CRT Cups
- Marine Bearings & Housings
- Reservoir Seals
- Expansion Seals
- RCD's
- Cement Impellers
- HP Cups
- Shock Mounts / Anti-Vibration Mounts
- Tubing Centralisers
- Formation Tester Pads

5. DRILL STEM TESTING (DST)

- DST Elements
- High Temp DST Elements

6. SUBSEA APPLICATIONS

- Vane Centralisers
- Bend Stiffeners & Chafe Protectors
- Tubing Centralisers
- Thread Protectors
- PU Seals / Compression Disks
- Clamp Seals / Protectors
- Custom Seals



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A WIDE RANGE OF HIGH-PERFORMANCE PRODUCTS



7. PIPELINE OPERATIONS

- Pipeline Isolation Seals
- C-Flex
- Custom Seals

8. ARTIFICIAL LIFT PRODUCTS

- ESP Cups / Debris Barriers
- Swab Cups
- Oil Savers

9. SURFACE PRESSURE CONTROL EQUIPMENT

- BOP Seals (Inner/Front & Outer/Rear Seals)
- Blind Ram Seals
- Multi-Line Seals
- Connection Seals
- Annular BOPs
- Slickline / Braided Line Wiper Seals
- Hydraulic Wiper Seals

10. ENHANCED OIL RECOVERY (EOR)

- Steam & Hydrocarbon Resistant Cups / Elements
- Chevron Stacks
- Custom Seals

11. DOWNSTREAM

- Lip Seals
- Butterfly Valve Seals
- Gate Seals

12. HIGH PERFORMANCE GENERIC SEALS

- O-Rings
- Backups
- Chevron / V-Seals
- S-Seals
- Dynamic Seals



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