

Sealing Systems for the Mining Industry

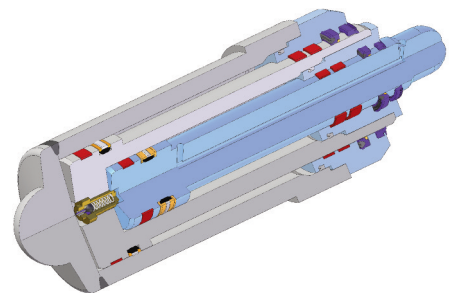




Applied experience

For over 50 years Hallite Seals have designed, developed and manufactured hydraulic seals and bearings for the mining industry creating a wealth of knowledge and experience which is unsurpassed worldwide within the field of specialised mining applications.

Working in partnership and liaising with manufacturers worldwide, Hallite fully understands the demanding applications and the severe working conditions in which mining equipment operates. This cooperation enables Hallite to provide the safe and reliable products demanded in today's mining industry.



38 Wiper



842 Wiper



652 Rod Seal



744 Double Acting Rod Seal



730 Piston Seal



506 Bearing



155 Static Seal



- Longwall roof supports
- Tunnelling machines
- Cutting machines
- Roof bolting machines
- Excavators
- Scoop trams
- Shearers
- Shuttle cars
- Drilling machines
- Continuous mining machines

“Seals are subjected to extensive in-house testing and field trials.”

Test and development

Many different operating conditions are found in cylinders used on mining equipment, each requiring careful selection of seal materials to match each application.

Design engineers and material technologists consider these conditions when designing new and innovative sealing systems. Strict attention is paid to seal profile design and material selection, and product properties are methodically studied to ensure that the required qualities are found in the finished component.



Seals are subjected to extensive in-house testing and field trials. Hallite's test facilities reproduce continuous operating conditions and record leakage, and dynamic and breakout friction as well as monitoring pressure, speed, temperature and other performance factors.

Test and development facilities include:

- **Friction and leakage test rigs**
- **High pressure pulse test rig**
- **Finite element analysis**
- **Hydraulic cylinder test rig**

Products and materials

The current range of sealing materials include nitrile rubbers, rubber and fabric compounds, thermoplastic elastomers and unique bearing compounds, all proven in mining applications worldwide.

In addition to its extensive range of standard catalogue products, Hallite provides a complete service for the design, development and manufacture of seals for OEM and refurbishment applications.

For further details of Hallite's mining seals, contact your local Hallite sales office.



Hallite Seals

Hallite produces high performance hydraulic sealing solutions for the world's fluid power industry. The company enjoys an enviable reputation for high quality and reliability within the mobile hydraulics, mining, off-highway, construction, agriculture, mechanical handling and automation markets.

Hallite products, engineered in a wide variety of advanced materials, are chosen by leading manufacturers for their exceptional performance in the most demanding, safety-critical high specification applications.

Hallite operations are located in Australia, Brazil, Canada, China, France, Germany, India, Italy, the UK and the USA. All Hallite locations are committed to providing quality seals in the shortest possible time. Hallite combines carefully chosen and managed stocks in local markets, supported by a fast track moulding capability. All locations can now boast a CNC machining cell, branded Hallite Service, which can provide immediate delivery for non-standard and breakdown situations.

Additionally a worldwide network of service partners completes the global presence and ensures the full range of Hallite products is readily accessible.



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