

WILLIAM JOHNSTON
& COMPANY LIMITED

Flexitallic

The superior sealing
material for proactive
corrosion prevention.



www.corriculite.com

www.williamjohnston.co.uk

CORRICULITE
Protection. Sealed in.

THE BENEFITS OF CORRICULITE ARE CLEAR

- Fire Safe to API 6FB
- Reduced maintenance costs
- Reduces costly shutdowns
- Maintains seal integrity
- Extends equipment life
- Eliminates safety & environmental risks



Corrosion caused by use of conventional graphite gaskets

CORRICULITE
Protection. Sealed in.

Corriculite: the new industry standard for sealing solutions in corrosive environments.

Superior sealing solutions since 1912

Responding to customer demands for an improved material with strong anti-corrosion characteristics Flexitallic has created **Corriculite** - a filler material for spiral wound gaskets specifically designed for use in corrosion-sensitive environments, such as seawater and hydrocarbon services, across a number of industries, including oil and gas, power and marine.

This revolutionary, non-conductive filler material provides sealing performance and corrosion resistance unlike any other gasket material on the market. Comparative tests show **Corriculite** delivers corrosion protection and sealing properties that far exceed other materials currently available.

Conventional graphite gaskets for instance, promote the initiation and propagation of corrosion of flanges due to graphite's electrical conductivity and position in the galvanic series, leading to premature failure and leakage.

Next generation of flange protection

Choosing the right gasket is crucial to avoid the onset of corrosion and subsequent unwanted costs, disruption and safety concerns. **Corriculite** is an inert, non-conductive filler material that remains inactive in corrosion mechanisms and prevents galvanic corrosion, to ensure seals maintain their integrity.

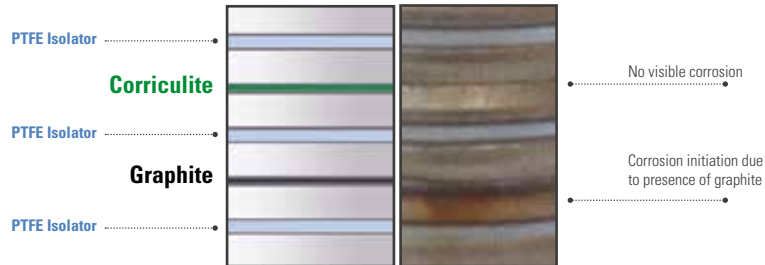
A winning combination of optimum sealing and anti-corrosion properties. When it comes to gasket use in corrosion sensitive environments, there really is no material like **Corriculite** for cost-effective, flange corrosion management.



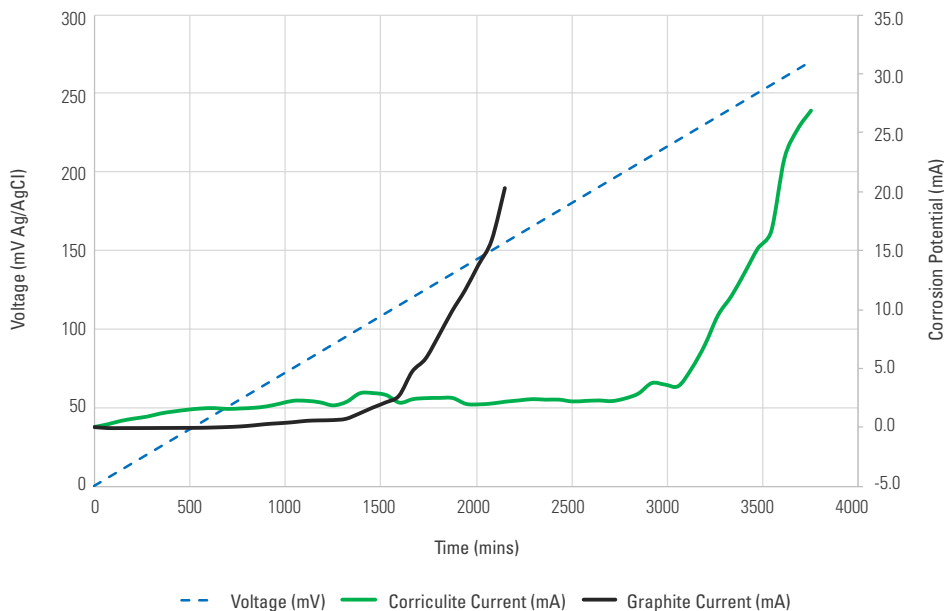
Joints in seawater and hydrocarbon services are vulnerable to gasket degradation and flange face corrosion, which results in increased costs, lost production as well as safety and environmental concerns, unscheduled downtime and reduced plant availability.

Corriculite: 100 times tighter than graphite

For sealing reliability and corrosion protection, nothing beats **Corriculite** - The new and advanced sealing material for corrosion sensitive environments



Corrosion testing (Graph 1): Plot comparing graphite and **Corriculite** gaskets with increasing applied voltage.



A proven solution

A number of benchmark tests have been carried out to validate the performance of **Corriculite** as a sealing material in corrosion sensitive conditions:

Corrosion testing (Graph 1)

This testing covers the evaluation of gasket sealing materials when exposed to a salt water environment over time. Corrosion was not seen in the **Corriculite** test cells whereas with graphite, corrosion had been initiated and was clearly visible. Electrochemical evaluation showed **Corriculite** to be significantly better when compared to graphite under the same conditions.

EN13555 sealing testing (Graph 2)

Measures leakage rates at different gasket seating stresses and showed **Corriculite** to have superior sealing performance compared to graphite.

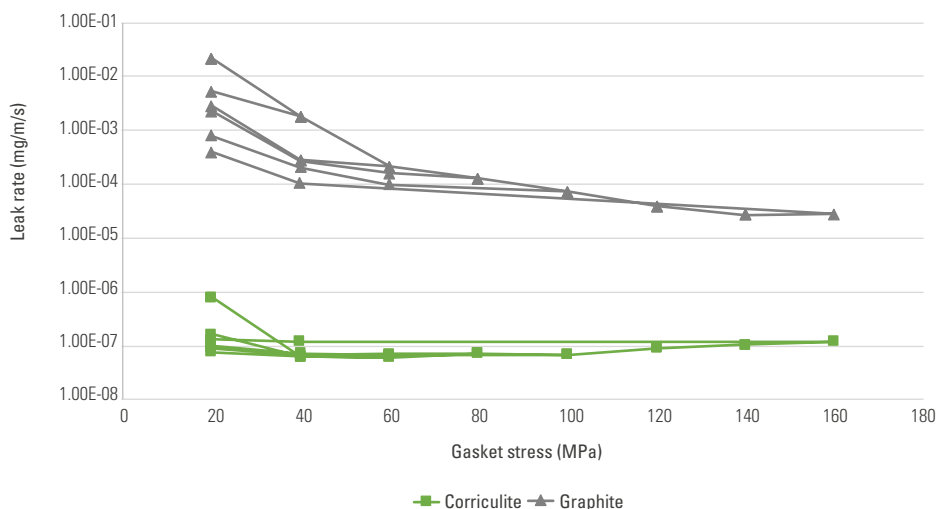
Submerged testing

Used to evaluate sealing capacity under real world conditions, results showed a loss of pressure of only 1% for **Corriculite** compared to 17% in the graphite gasket.

Thermal cycle testing

Used to evaluate gaskets' sealing performance under thermal cyclic loading. **Corriculite** lost less than 1bar of pressure over 10 cycles, successfully exceeding the test requirements.

Sealing testing (Graph 2): Leakage comparison at room temperature, a flat line indicates no change in sealing performance.



About The Flexitallic Group

The Flexitallic Group is a global leader in specialised sealing solutions and products serving the oil and gas, power generation, chemical and petrochemical industries in emerging and developed markets. Focused on the upstream, downstream and power generation sectors, it has operations in France, the United States, Canada, Mexico, the United Kingdom, Germany, the United Arab Emirates, Kazakhstan and China plus a network of worldwide licensing partners and distributors.

www.theflexitallicgroup.com

Disclaimer

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.



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