

*Flexitallic*

The superior sealing  
material for proactive  
corrosion prevention.



[www.corriculite.com](http://www.corriculite.com)

**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.

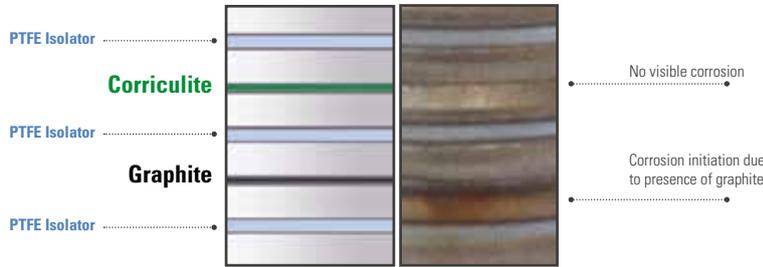
A winning combination of optimum sealing and anti-corrosion properties. When it comes to gasket use in corrosion sensitive environments, there really is no material like **Corriculite** for cost-effective, flange corrosion management.



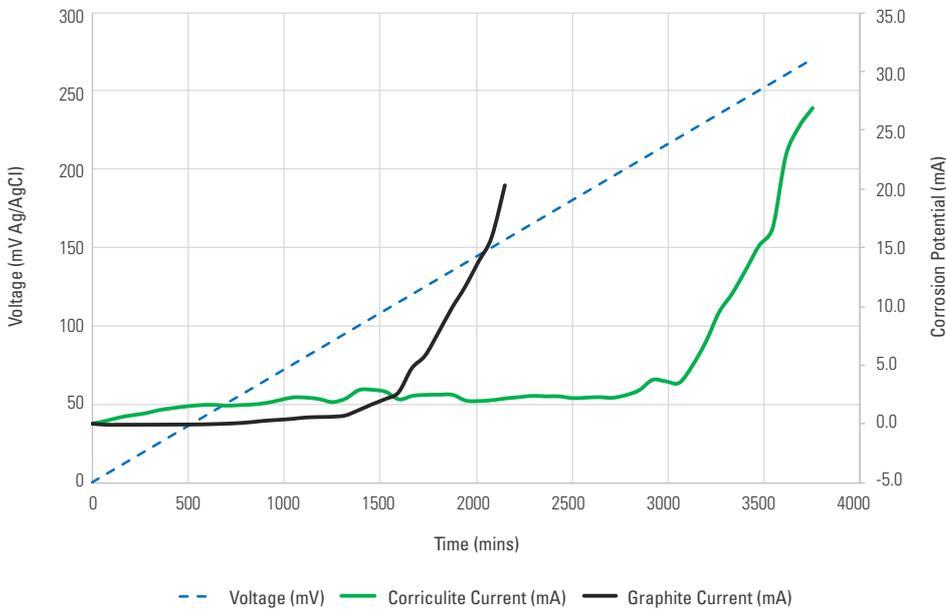
**Joints in seawater and hydrocarbon services are vulnerable to gasket degradation and flange face corrosion, which results in increased costs, lost production as well as safety and environmental concerns, unscheduled downtime and reduced plant availability.**

# 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.

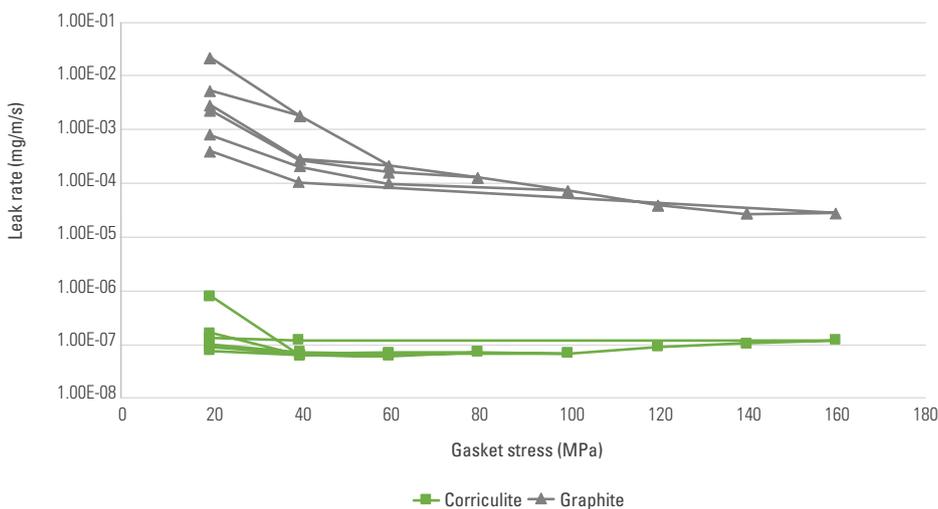
### Submerged testing

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](http://www.theflexitallicgroup.com)

## UNITED KINGDOM

### Flexitallic Ltd

Scandinavia Mill  
Hunsworth Lane  
Cleckheaton  
West Yorkshire, BD19 4LN  
UK  
Tel. +44 1274 851273  
Fax. +44 1274 300303  
[www.flexitallic.eu](http://www.flexitallic.eu)

*Branches also in  
Aberdeen, Middlesbrough,  
Ellesmere Port and Cardiff.*

## FRANCE

### Siem Supranite a Flexitallic Company

250 bis rue du Fg St Honoré  
75008 Paris  
FRANCE  
Tel. +33 (0)1 48 88 88 88  
Fax. +33 (0)1 47 66 88 44  
[www.siem.fr](http://www.siem.fr)

## UNITED STATES

### Flexitallic L.P.

6915 Highway 225  
Deer Park  
Texas 77536  
USA  
Tel. +1 281 604 2400  
Fax. +1 281 604 2415  
[www.flexitallic.com](http://www.flexitallic.com)

## UNITED ARAB EMIRATES

### Flexitallic LLC

Plot 108, Road E  
Al Hamra Industrial Area  
Ras Al Khaimah  
UNITED ARAB EMIRATES  
Tel. +971 (0)7 243 4305  
Fax. +971 (0)7 243 4306  
[www.flexitallic.ae](http://www.flexitallic.ae)

## GERMANY

### Flexitallic GmbH

Halskestr. 4a  
47877 Willich  
GERMANY  
Tel: +49 (0) 2154 95363-0  
Fax: +49 (0) 2154 95363-29  
[www.flexitallic-gmbh.de](http://www.flexitallic-gmbh.de)

## SINGAPORE

### Flexitallic Ltd

*Singapore Branch*  
Level 42 Suntec Tower Three  
8 Temasek Boulevard  
SINGAPORE  
038988  
Tel: +65 68663638  
[www.flexitallic.eu](http://www.flexitallic.eu)

## CHINA

### Flexitallic Gasket Technology (Suzhou) Co., Ltd

Building A, 1868 Guangming Rd  
Technological Development Zone  
WuJiang Economic  
CHINA 215200  
Tel. +86 512 6303 2839  
Fax. +86 512 6303 2879  
[www.china.flexitallic.com](http://www.china.flexitallic.com)

## KAZAKHSTAN

### Novus Sealing Caspian LLP a Flexitallic Joint Venture

7v Atambayev St.  
Atyrau 060005  
REPUBLIC OF KAZAKHSTAN  
Tel: +7 7122 309936  
Fax: +7 7122 309937  
[www.novussealingcaspian.com](http://www.novussealingcaspian.com)

## CANADA

### Flexitallic Inc

4340 - 78 Avenue  
Edmonton  
Alberta, T6B 3J5  
CANADA  
Tel. +780 466 5050  
Fax. +780 465 1177  
[www.flexitallic.ca](http://www.flexitallic.ca)