

Flexitallic

The superior sealing
material for proactive
corrosion prevention.



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 gasket

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.

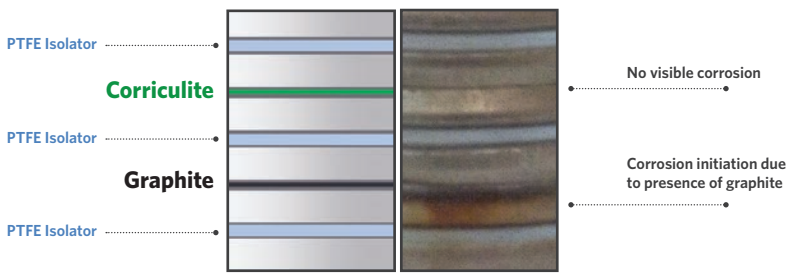
A winning combination of optimum sealing and anti-corrosion properties. When it comes to gasket use in corrosion sensitive environments, there really is no material like Corriculite for cost-effective, flange corrosion management.



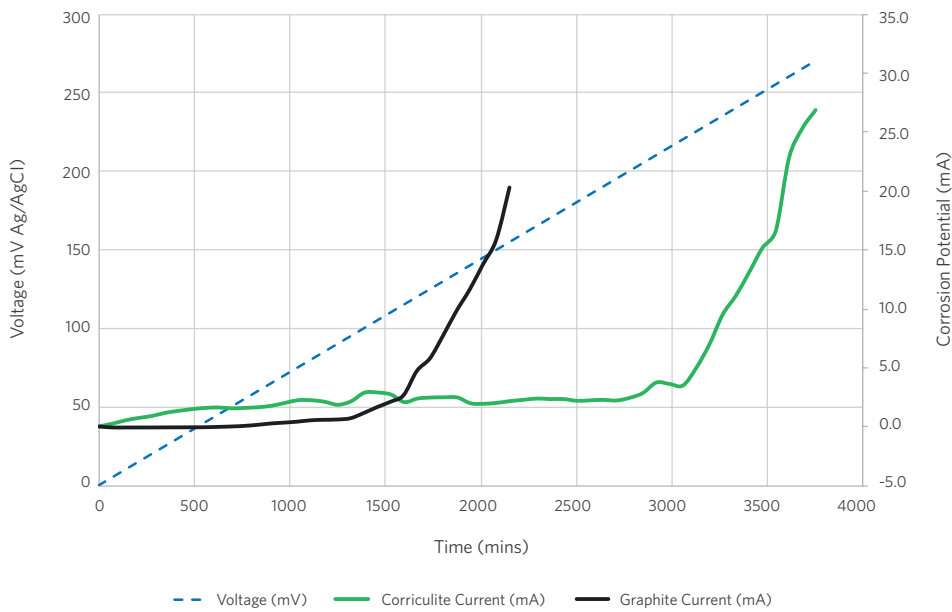
Joints in seawater and hydrocarbon services are vulnerable to gasket degradation and flange face corrosion, which results in increased costs, lost production as well as safety and environmental concerns, unscheduled downtime and reduced plant availability.

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.

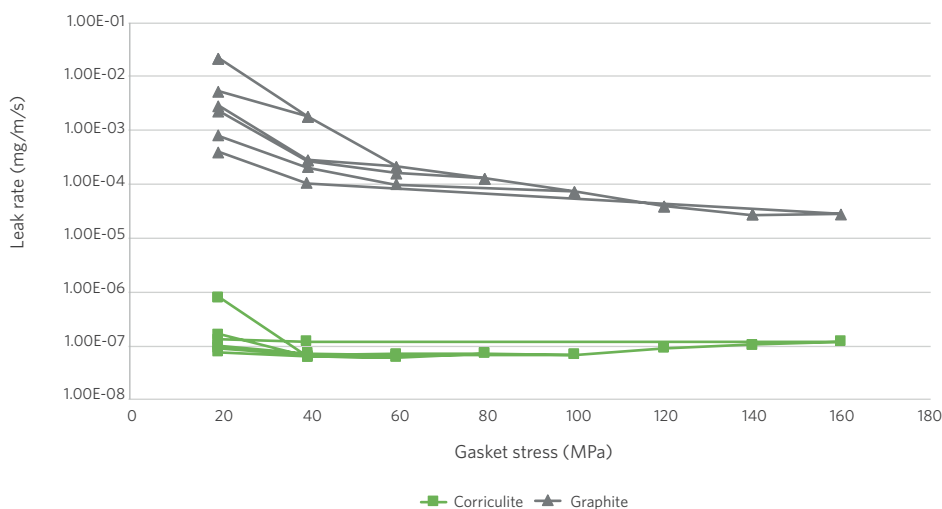
Submerged testing

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.



UNITED KINGDOM

Flexitallic UK Ltd.

Scandinavia Mill
Hunsworth Lane
Cleckheaton
West Yorkshire, BD19 4LN
UK
Tel. +44 1274 851273
www.flexitallic.com

*Branches also in Aberdeen,
Middlesbrough, Ellesmere Port
and South West.*

ITALY

Flexitallic Italy Sr.l

Via Leonardo Da Vinci 6B
26020 Ticengo CR
ITALY
Tel. +39 0374 71006
Fax. +39 0374 71277
www.flexitallic.com

AUSTRALIA

Flexitallic Australia Pty Ltd.

13-15 Vinnicombe Drive
Canning Vale
Perth, WA 6112
AUSTRALIA
Tel. +61 (0)8 9455 2155
www.flexitallic.au

*Branch also in Melbourne,
Victoria.*

FRANCE

Siem Supranite

a Flexitallic Company

31-33 Rue de Mogador
75009 Paris
FRANCE
Tel. +33 (0)1 48 88 88 88
Fax. +33 (0)1 47 66 88 44
www.siem.fr

CHINA

Flexitallic Gasket Technology (Suzhou) Co. Ltd.

Building A, 1868 Guangming Rd
Technological Development Zone
Wujiang Economic 215200
CHINA
Tel. +86 512 6303 2839
Fax. +86 512 6303 2879
www.flexitallic.com

UNITED ARAB EMIRATES

Flexitallic LLC

PO Box No. 6591-Al Jazeera
Plot 108, Road E
Al Hamra Industrial Area
Ras Al Khaimah
UNITED ARAB EMIRATES
Tel. +971 7 202 5300
Email. sales@flexitallic.ae

Flexitallic Gaskets Company LLC

PO. Box No 778223,
Unit 2, Block 8, Plot 8A1,
M41, ICAD-1, Al Saqlawi Street
ABU DHABI
UNITED ARAB EMIRATES
Tel. +971 2 407 9600
Email. sales-ad@flexitallic.ae
www.flexitallic.com

GERMANY

Flexitallic GmbH

Halskestr. 4a
47877 Willich
GERMANY
Tel. +49 (0) 2154 95363-0
Fax. +49 (0) 2154 95363-29
www.flexitallic.com

SINGAPORE

Flexitallic Ltd.

Singapore Branch

Level 42 Suntec Tower Three
8 Temasek Boulevard
SINGAPORE
038988
Tel. +65 68663638
www.flexitallic.com

UNITED STATES

Flexitallic US LLC

6915 Highway 225
Deer Park
Texas 77536
USA
Tel. +1 281 604 2400
Fax. +1 281 604 2415
www.flexitallic.com

BENELUX

Flexitallic Benelux BVBA

Smallandlaan 21
2660 Hoboken
BELGIUM
Tel. +32 3 369 19 68
www.flexitallic.com

THAILAND

Flexitallic Sealing Technology Co. Ltd.

No. 7/456, Moo 6,
Amata City Rayong Industrial Estate
Mabyangporn Sub-district
Pluak Daeng District,
Rayong Province
THAILAND
Tel. +66 (0)33017561 - 3
Fax. +66 (0)33017564
www.flexitallic.com

CANADA

Flexitallic Canada Ltd.

4340 - 78 Avenue
Edmonton
Alberta, T6B 3J5
CANADA
Tel. +780 466 5050
Fax. +780 465 1177
www.flexitallic.com

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, Italy, Belgium, the United Arab Emirates, Thailand, Australia and China plus a network of worldwide licensing partners and distributors.