Flexitallic

PRODUCT DATASHEET

CORRICULITE®
Hydrogen

Corriculite® is a specially formulated gasket material developed for use in applications where high levels of tightness are essential, such as when sealing hydrogen.

CORRICULITE®
Protection. Sealed in.

Service
The small molecular size of hydrogen and ability to form flammable and explosive atmospheres in the presence of air can make the effective, long term sealing of gaseous hydrogen containing pressure systems a challenge.

Flexitallic Corriculite® exploits the unique structural and chemical properties of exfoliated vermiculite to create an exceptionally tight, inert, high compression material capable of meeting the hydrogen sealing challenge.

Leakage testing to recognized industry standards demonstrates Corriculite's class leading tightness capability, across a range of standard semi-metallic gasket styles. Benchmark testing against graphite based gaskets indicate leakage rates in the order of 1000 times tighter.

All Corriculite® based semi-metallic gaskets comply with the stringent fire safety requirements of API 6FB.

Corriculite® has been specially formulated to offer a wide range of chemical resistance. High purity and electrical properties help to mitigate flange face corrosion associated with other non-metallic sealing materials.

Availability
Corriculite® is available in a wide range of industry standard, semi-metallic gasket styles.

Corriculite® 235 spiral wound gaskets offer high levels of resilience and can be used in variety of seal face configurations.

When faced with Corriculite® 245, Flexpro™ (kammprofile) gaskets offer exceptional levels of seal tightness, especially in load compromised connections.

Corriculite® 255 Change gaskets offer class leading sealing performance in applications subject to cyclic loading.

Gaskets using Corriculite® are available for use in all industry standard, PN and class rated, pipeline flanges. They can also be designed to suit bespoke connections.

Gasket style and metallurgy selection are based on application details.

Fire Safety:
API 6FB fire compliant.

Temperature Range:
-196°C (-321°F) to 260°C (500°F)

Pressure Range:
Vacuum to 400 barg

Typical Physical Properties

Leachable sulphur	ppm	<75
Leachable fluoride ion content	ppm	<30
Leachable chloride ion content	ppm	<50

Health & Safety
For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic UK Ltd.