



Spiral Wound EVSM

EVSM (Expanded Vermiculite Sealing Material) is a spiral wound gasket filler designed to address the issue of flange corrosion in oil and gas applications. Unlike graphite, EVSM is non-conductive, mitigating the risk of galvanic corrosion in seawater applications.



TYPICAL PHYSICAL PROPERTIES

Density	g/cm ³	1.2-1.3
Tensile Strength	MPA	4.35
Leachable Chloride Ion Content	ppm	<50
Leachable Fluoride Ion Content	ppm	<50

APPLICATION

Spiral wound gaskets with EVSM filler are designed to replace graphite-filled spirals in both seawater and hydrocarbon applications, making them particularly suitable for upstream oil and gas operations. EVSM gaskets maintain the integrity of traditional graphite filled spiral while offering enhanced tightness and mitigating the risk of galvanic corrosion.

EVSM filled spirals are available with and without retaining rings, and in a wide range of allow materials to ensure compatibly with the sealing media and operating conditions. They are engineered to suit standard pipeline flanges as well as non-standard applications, including vessel flanges.

AVAILABILITY

Design	Name	Application
Outer & Inner Rings	PM-ORIR	Raised & Flat Face Flanges
Outer Ring Only	PM-OR	Raised & Flat Face Flanges
Inner Ring Only	PM-RIR	Spigot to Recess Flanges
Sealing Element Only	PM-R	Flat/Tounge to Groove Flanges

Temperature Range

-196°C to 1000°C

Flange Surface Finish

The recommended a flange surface finish of 3.2 to 6.3µm RA (125 to 200RMS)

Pressure Standards

ANSI B16.5 Class 150 to 2500lbs
ASME B16.21, B16.47 series A, B16.47 Series B EN1514-2, BS10, Non Standard Configurations