



# JEIL E&S CO., LTD.

## THERMBLOK

### ***THERMBLOK Sheets & Gaskets*** ***: For Extremely High Temperature(1000°C).***

#### □ **Description**

- ⇒ THERMBLOK demonstrates the broad range of chemical and temperature resistance of the Vermiculite.
- ⇒ THERMBLOK is extremely versatile, fire safe, and not susceptible to oxidation.
- ⇒ THERMBLOK is reinforced with 0.004", 316 stainless steel tanged core.
- ⇒ THERMBLOK chemical compatibility exceeds that of graphite and will successfully seal up to 1832°F (1000°C).
- ⇒ Fire Safety Gasket

#### □ **Application**

- ⇒ Ideal for use in combustion engine exhaust, nitrogen fertilizer manufacturing, steam and other applications.
- ⇒ Unlike graphite, THERMBLOK resistance to galvanic corrosion will make it an excellent candidate for seawater and offshore cooling applications.
- ⇒ Maximum Service Temperature : 1832°F (1000°C)
- ⇒ Maximum Tested Pressure : 10 MPa (100 kgf/cm<sup>2</sup>)
- ⇒ Maximum Size : 1500(mm) × 1500(mm)
- ⇒ Thickness Range : 3.0mm(1/8")

#### □ **Physical Properties**

**ORIGINAL COPY**

Test Method	Physical Properties	Typical Data (3.0t Base)
ASTM D792	Facing Density[g/cm <sup>3</sup> ]	1.5
ASTM F152	Tensile strength Across grain. MPa[kg/mm <sup>2</sup> ]	-
ASTM F36J	Compressibility[%]	45~55
ASTM F36J	Recovery[%]	10
BS 7531	Residual Stress[MPa]	30
※ DIN 3535-6 Modified	Gas Permeability[cc/min]	0.002



※ Gas Permeability Test: Gasket stress 60MPa, Internal pressure 10bar N<sub>2</sub>