



PRODUCT SPECIFICATIONS

# EFS™ -1 HEAT TRANSFER COMPOUND

### APPLICATION

EFS-1 is a preformed flexible heat transfer compound designed for use between plate-type external heating/cooling coils and process vessels. As a graphite and resin-based heat transfer compound, EFS-1 is supplied in roll form for ease of installation. Typical applications require no additional surface preparation, allowing fast, clean and simple installation.

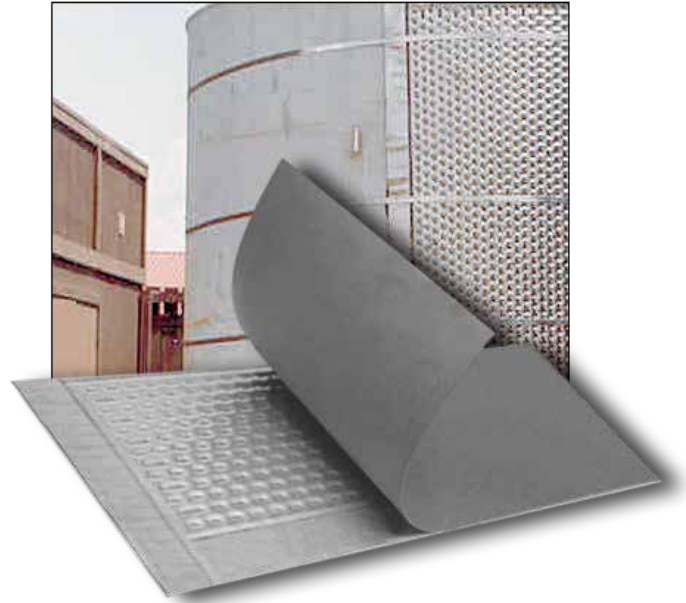
Thermon's heat transfer compounds provide an efficient thermal connection between the coils and the process equipment. By eliminating the air voids that would ordinarily exist, heat is directed into the vessel wall primarily through conduction rather than convection and radiation.

### SPECIFICATIONS/RATINGS

Maximum exposure temperature.....	406°F (208°C)
Minimum exposure temperature.....	-100°F (-73°C)
Minimum installation temperature	
Ambient temperature.....	10°F (-12°C)
Product temperature .....	10°F (-12°C)
Heat transfer coefficient, U <sub>t</sub> .....	heater to tank wall
	20-40 Btu/hr•°F•ft <sup>2</sup> (114-227 W/m <sup>2</sup> •°C)
Electrical resistivity .....	146 ohms/inch (57 Ohm/cm)
Shelf life.....	indefinite
Bond shear .....	100-150 lgs/in <sup>2</sup> (689-1034 kPa)
Water-soluble .....	no

**Note**

1. A four-hour start-up procedure should be implemented to circulate fluids ≥ 200°F (93°C) through the heating panel for optimal performance.



### DESCRIPTION

EFS-1 is extruded in 12-inch (305 mm) wide, 1/8-inch (3.2 mm) thick sections and up to 500 feet (152 m) in length.

EFS-1 is non-soluble in most liquids and requires no curing procedures when the heating medium is at or above 200°F (93°C)<sup>1</sup>.

### BENEFITS

- Factory-formed; requires no curing
- Developed specifically for external heating coils
- Non-soluble in water
- No surface preparation required<sup>1</sup>
- Ensures rapid, clean, error-free installation
- Free design assistance

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