



# PRODUCT DATASHEET

## NH NonHARDENING HEAT TRANSFER COMPOUND

### APPLICATION

NH nonhardening heat transfer compound is used where thermal expansion and contraction could break the bond of a hardened compound. Typically installed between plate-type heating coils or with systems that require periodic disassembly, NH remains pliable indefinitely, allowing the compound to expand and contract to meet the changing requirements for the application.

Thermon's heat transfer compounds provide an efficient thermal connection between the external heating source and the process equipment. Thermon's NH compound improves the overall heat transfer coefficient by a minimum factor of three. By eliminating the air voids that would ordinarily exist, heat is directed into the surface area primarily through conduction rather than convection and radiation.

### SPECIFICATIONS/RATINGS

Container sizes

NH-100 .....	1-gallon (3.79-liter) cans
Maximum exposure temperature .....	210°C (410°F)
Minimum exposure temperature .....	-196°C (-320°F)
Minimum installation temperature	
Ambient temperature .....	0°C (32°F)
Product temperature .....	25°C (77°F)
Heat transfer coefficient, $U_t$ .....	heater to tank wall 114-227 $w/m^2 \cdot ^\circ C$ (20-40 $Btu/hr \cdot ^\circ F \cdot ft^2$ )
Electrical resistivity .....	126 ohm-cm (320 ohm-inch)
Shelf life .....	indefinite
Water-soluble .....	no
Total chlorides (ASTM D6443) .....	< 150 ppm
Cone Penetration (ASTM D217) .....	175-205
Dropping Point (ASTM D2265) .....	> 300°C (571°F)



### DESCRIPTION

Nonhardening heat transfer compound is available in one gallon pails. NH is nonsoluble in most liquids. Compound remains pliable and requires no curing procedures.

### BENEFITS

- Provides excellent heat transfer for systems having significant differential expansion
- Requires no curing
- Non-soluble in water
- No surface preparation required
- Remains pliable for easy disassembly