



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