

Ecoflex® 100N

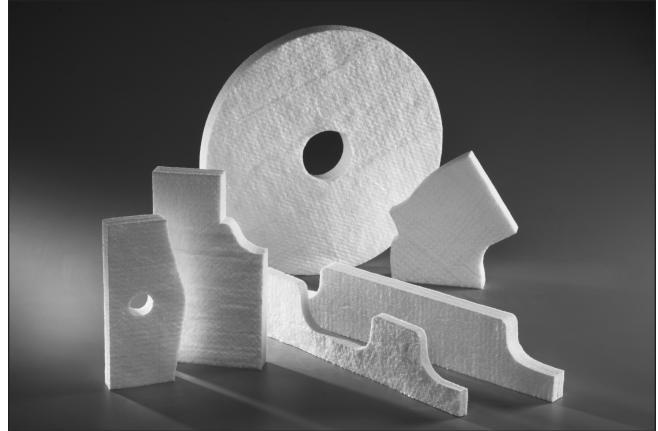
Ecoflex® 100N is a high-performance insulation material that has been engineered specifically for use in heavy-duty diesel (HDD) applications.

Made from high-temperature, non-respirable silica fibers, Ecoflex 100N provides superior resiliency and durability when compared to traditional insulation products. It is resistant to both mechanical vibration and chemical attacks (including urea exposure), allowing it to hold its integrity in the environments and vibration levels typically seen in HDD applications.

Ecoflex 100N has also been specially designed to resist heat setting (irreversible thermal shrinking) which can be a source of compromise in traditional insulation products.

The non-respirable silica fibers used in Ecoflex 100N are not classified using GHS criteria, OSHA or EU legislation. Additionally, parts can be cut to shape with a patented process that further reduces mechanical irritation from loose particles while handling.

Unifrax offers a global network of application engineering services and will provide you with a technical recommendation for your specific design needs.



Product Availability

| Basis Weight (g/m ²) | Thickness (mm) |
|-------------------------------------|-------------------|
| 2300 | 15.0 |
| 3400 | 20.0 |
| 4600 | 30.0 |

Typical Properties

| | |
|-------------------------------------|--------------|
| Non-Respirable Silica Fibers | 95.0 – 98.0% |
| Other Elements + LOI | 5.0 – 2.0% |
| Thermal Stability | 1100°C |

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Refer to the product Material Safety Data Sheet (MSDS) for recommended work practices and other product safety information.

Thermal Conductivity

The following graph shows the thermal conductivity for Ecoflex® 100N insulation as a function of temperature.

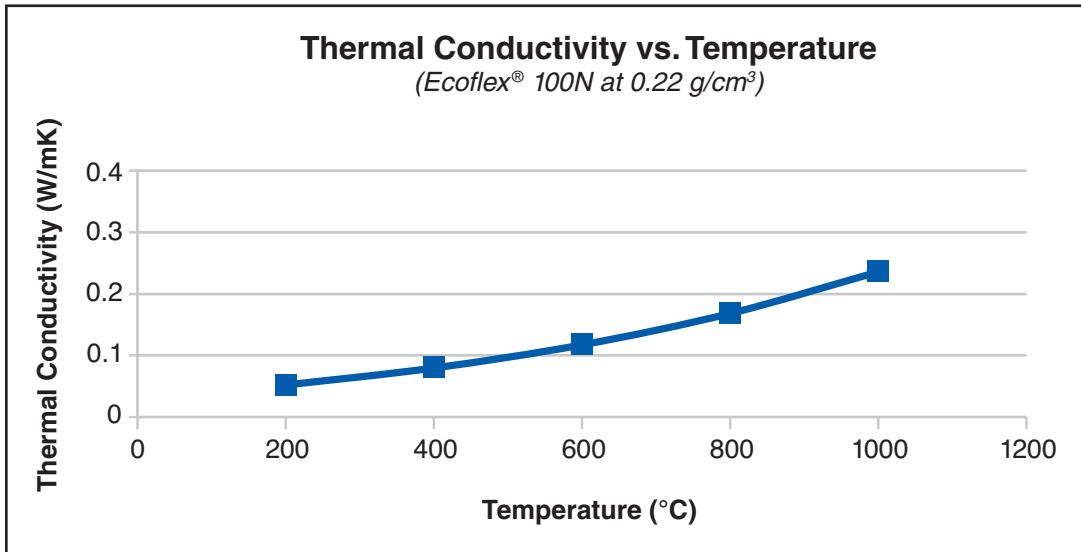


Figure 1: Thermal conductivity function

Thermal Shrinkage

Compared to a typical silica blanket, Ecoflex® 100N will show no shrinkage up to 750°C, making it ideally suited for heavy-duty diesel applications.

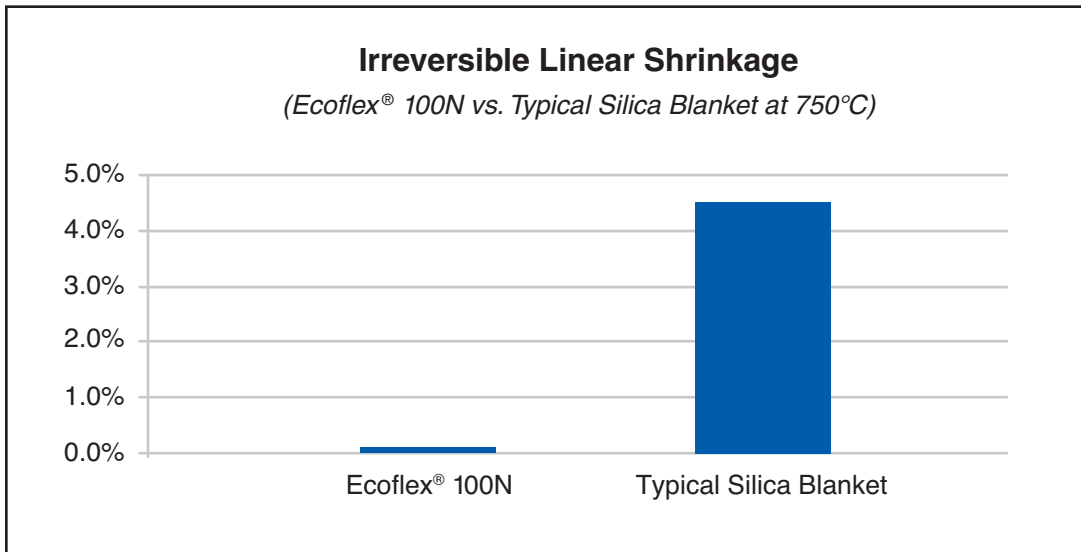


Figure 2: Irreversible thermal shrinkage