

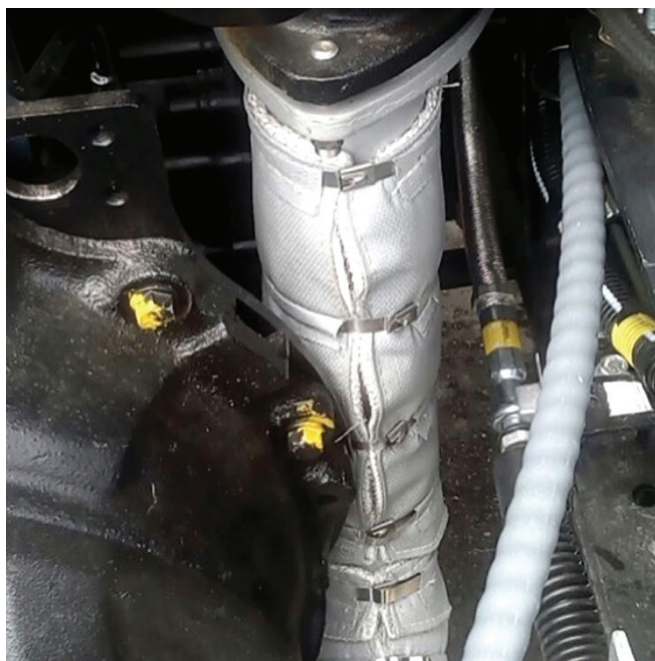


SOLUTION
L&L Thermal

VERSION
February 2021

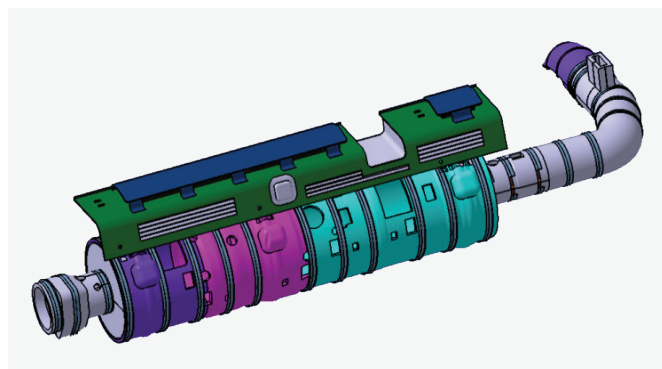
L&L Thermal Solutions

For thermal management applications.



L&L Thermal technologies are non-stretchable, high temperature resistant insulation solutions for thermal management applications.

Comprising of three to eight layers depending on the application and functional requirements, L&L Thermal technologies can withstand heat anywhere from 350°C to as high as 900°C.



To meet the increasingly stringent legislative measures around the world, L&L engineers tailor-made solutions offering thermal management in five ways:

1. **Emission control:** Ensuring exhaust gas temperature remains high during the flow to the SCR.
2. **Heat protection in the engine bay:** Shielding and protecting devices in the engine bay from the heat emitted by the engine and exhaust systems.
3. **Heat protection, driver/passenger cell:** Enabling higher comfort for the driver and passenger by preventing heat from the engine moving into the passenger cell.
4. **Heat protection, battery trays:** Providing heat shielding of the battery and enabling low energy usage of the active thermal management of the battery, thus increasing the range of the battery powered vehicle.
5. **Pass-by noise:** Reducing noise produced by vehicles, preferable at its source.

AREAS OF APPLICATION

Areas of the vehicle where L&L Thermal technologies can be applied include:

- Heat shield for exhaust applications
- Heat shield for tankers designed to transport flammable substances
- Under-hood and under-floor
- Battery thermal insulation
- Heat and noise shields for engine bays

KEY PRODUCT ATTRIBUTES

- Excellent heat strength resistance
- Improved heat / temperature retention
- Non-burning
- Excellent chemical resistance against grease, water, and mud
- Parts are available as flat-cut and/or as 3D thermoformed to enable any shape
- Can be installed using customer's current process

