

Automotive High- temperature insulation

Features:

High heat resistance

High insulation effect

Individual Design

Resistant against common
fluids in the engine
compartment

Temperature resistance from
– 40 °C to +1100°C

Adapted for prototypes, test
standards and series



Based on the experiences of muffler pads (insulation pads) solutions for high-temperature applications in the power plant- and turbine construction Delta T is able to offer vehicle technology solutions for insulation methods for the exhaust system area.

Whether you want to:

- protect the surroundings of an exhaust routing component against the originating radiant heat,
- realize a safer touch protection,

Or to:

- leave the thermal energy in the system (classic insulation) to reach the operating temperature e.g. of an exhaust aftertreatment component faster, or rather to ensure the necessary „activation temperature“,
- different insulation products and materials from the automotive product range are available.

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Automotive high-temperature insulation

Following components can be taken into account:

- **EGRs, turbocharger**
- **catalysts, particle filters (DPF)**
- **High-temperature lines in the exhaust gas system, (e.g. manifold, by-pass pipes)**
- **SCR-systems (AdBlue, DFL)**

Partial or complete coverings with different wall thicknesses, different heat transition coefficients (K-Value), aligned with the technical customer requirements such as:

- Continuous duration temperature resistance (up to 1.100 °C)
- Temperature reduction (e.g. 300 °C or higher)
- weight and geometry
- protection from environmental influences or touch protection
- Isolation effect ($K = 0,1$ to $0,017 \text{ W/mK}$)

Standard materials:

E-Glass 550 °C, purified E-Glass (e.g. stainless/reinforced) 750 °C / 900 °C,
ceramic fibres 1.000 °C, Aerogels 250 °C / 800 °C,
Silicate 1.100 °C, stainless steel > 1.100 °C,
PTFE 260 °C, silicone 260 °C / 300 °C

Application area:

Utility vehicles, omnibus, agricultural machines, construction machines, forklift trucks, cars, diesel locomotives, motor sport, prototype construction / test stands for combusting engines

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