Safety without compromise.

High-temperature resistant battery housing for lithium-ion systems.

HIGH-TEMPERATURE INSULATION | BATTERY TECHNOLOGY

In the event of a failure, lithium-ion batteries can reach temperatures of more than 1000 °C. This overheating can lead to fire. Secure casing of these high-performance batteries helps to keep the temperature under control and to ensure safety for both people and machines. Our extensive experience with high-temperature insulations enables us to make a valuable contribution to the safety of battery systems.

TMAX-BATTERY HOUSINGS

| Resistant to high temperatures
| Modular and scalable
| Easy to maintain
| Pressure-balanced
| Extended lifetime enabled by temperature control components
| Protection against water spray
| High resistance to stone impact
| Dust protected

BENEFITS

| Maximum safety in case of accident
| Optimal temperature control provides:
| Extended battery range
| Longer battery life cycle
| Operational safety

A FORWARD LOOKING APPROACH – FOR MORE THAN 40 YEARS. One principle has guided us since the founding of the company in 1976: Understanding Temperature. We’ve made handling high temperatures in engines and exhaust systems our core mission. We continue to develop unique solutions and are recognized today as a specialist in the design and manufacture of thermal and acoustic insulation systems.
THERMAL SIMULATION OF A BATTERY SYSTEM

Uninsulated vs. Insulated Temperatures Over Time

THERMAMAX ALL-ROUND PACKAGE

- Development
- Design
- FEM-Analysis
- Manufacturing for all series production requirements: small and medium series as well as large-volume production
- Thermography
- Assembly
- Test lab | hot gas testing | shaker test
- Compliant with the following standards and certifications:
  - IATF 16949
  - DIN EN ISO 9001
  - DIN EN ISO 14001
  - DIN EN ISO 50001
  - DIN EN ISO 3834
  - Marine Equipment Directive 2014/90/EU
  - AMS - OHSAS 18001

BENEFIT FROM SHORTER DEVELOPMENT TIMES, MORE FLEXIBILITY AND QUALITY. WE ARE ALWAYS AVAILABLE TO ASSIST WITH OUR TECHNICAL EXPERTISE.