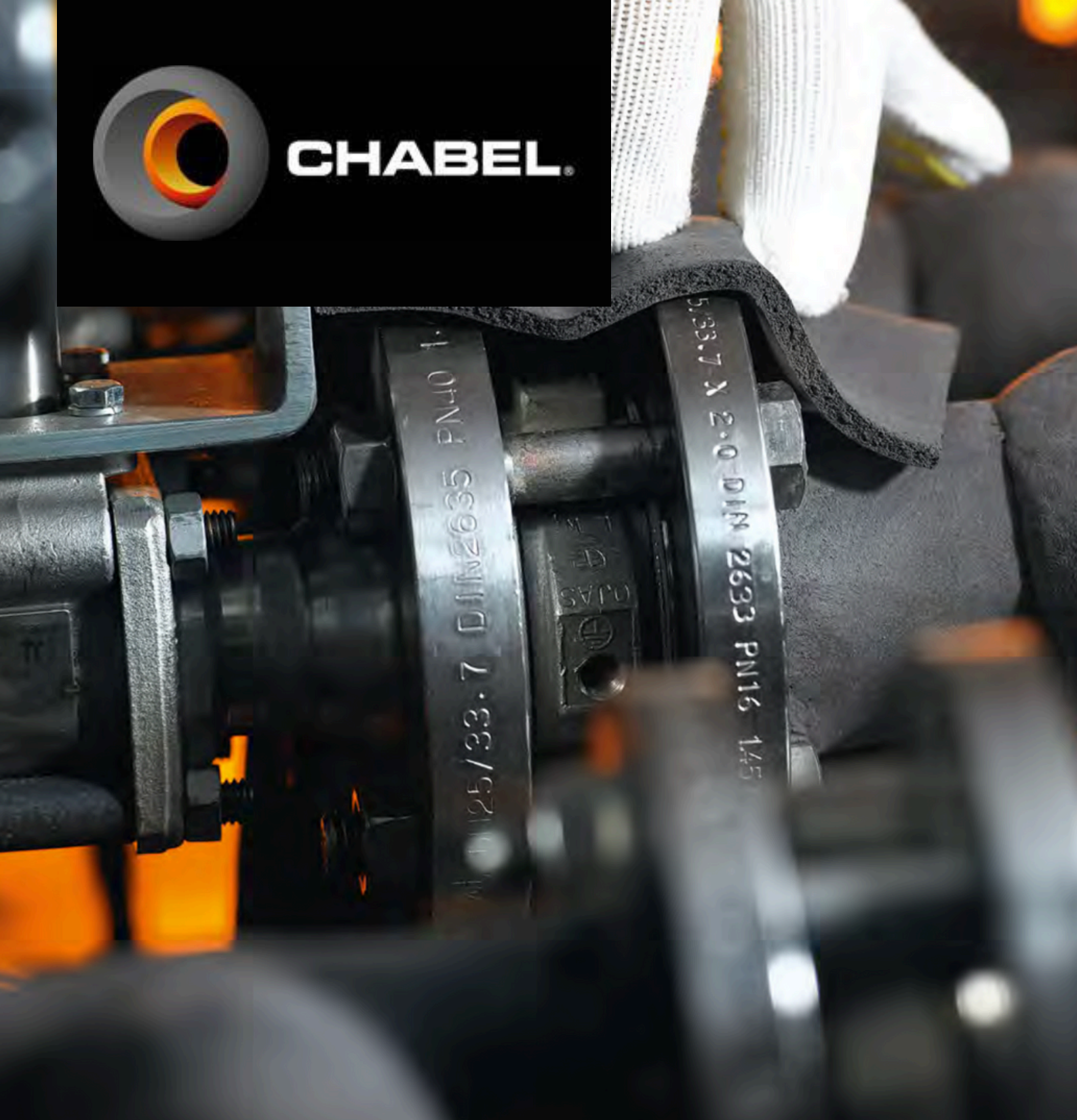


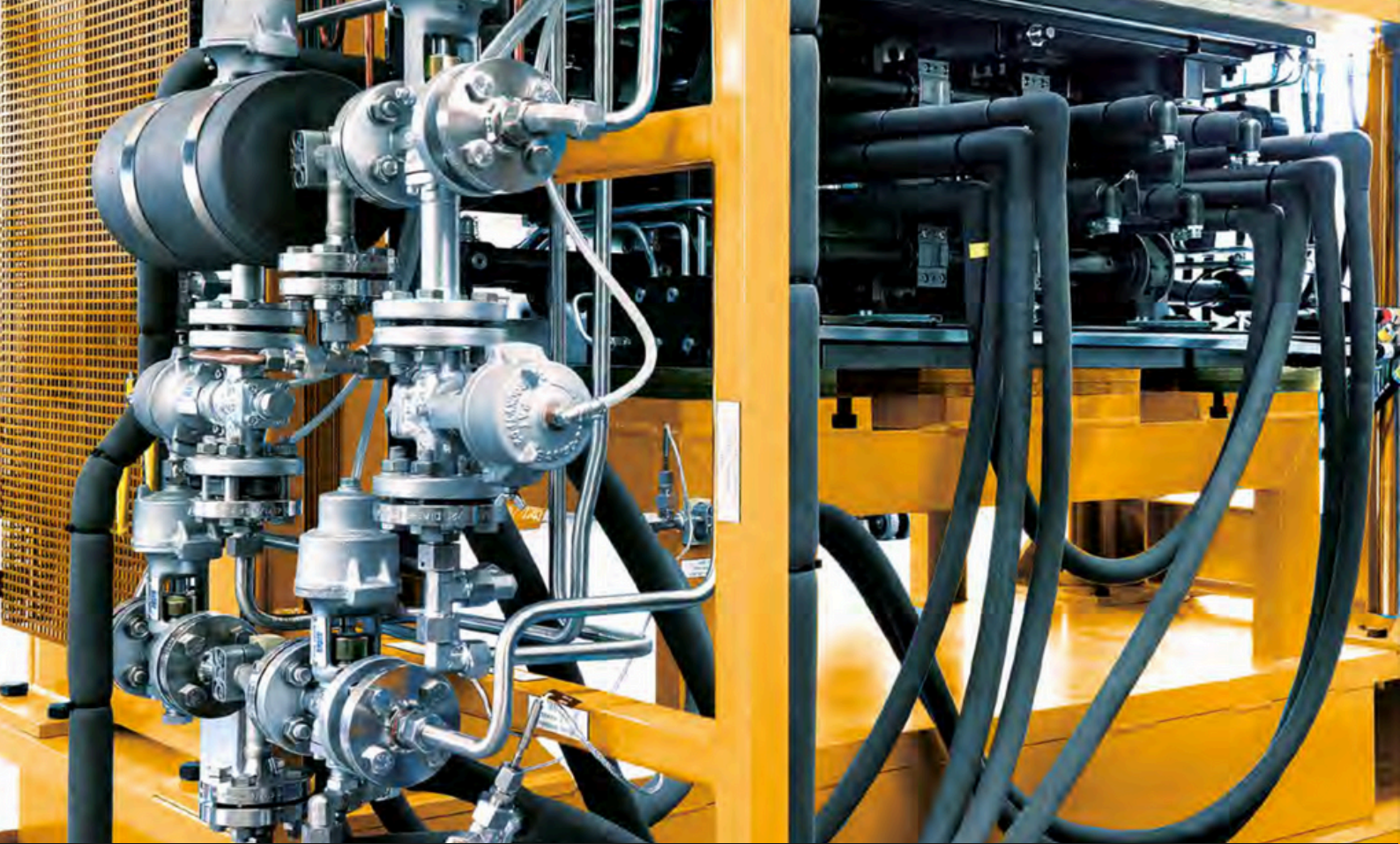


CHABEL®



Chabel® **ThermoProtect** (CTP)

HotSpots - We fill the gaps



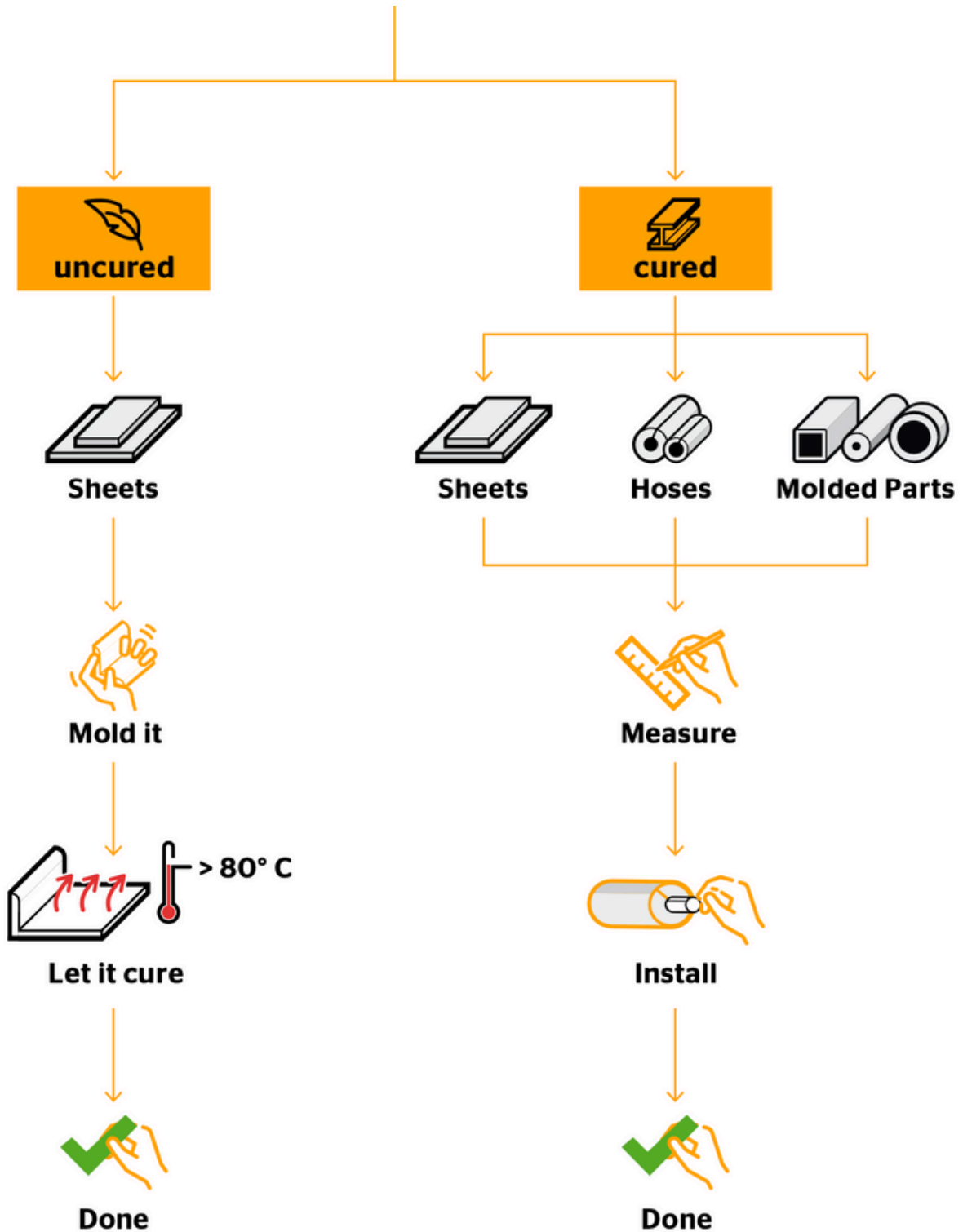
Chabel® Thermo Protect - Benefits

- › **High-temperature range:** the insulation system is suitable for high temperatures up to 250 °C.
- › **Flexibility:** Chabel® Thermo Protect remains dynamic, flexible, and robust at temperatures from -50 °C to 250 °C.
- › **Excellent thermal insulation:** significant reduction in heat dissipation by up to 80 %.
- › **Simple application:** the uncured, kneadable material enables the insulation of complex units, even in confined spaces.
- › **Corrosion protection:** minimizes the risk of corrosion under insulation.
- › **Benefits in work safety:** insulation with Chabel® Thermo Protect reduces the risk of heat burns, impact injuries and reduces the temperature in the workplace.
- › **Noise reduction:** Chabel® Thermo Protect reduces structure-borne noise directly at the source.
- › **Clean room suitability:** Chabel® Thermo Protect has been awarded the Fraunhofer IPA CSM Certificate of Qualification.
- › **Superior properties:** the product is water-repellent, self-extinguishing, UV-resistant, weatherproof, and resistant to a wide range of media and fluids.
- › **Easy handling:** uncured Chabel® Thermo Protect is highly flexible and ductile, self-adhesive, very easy to process, and just as easy to remove.
- › **Sustainable:** Chabel® Thermo Protect is an ecologically smart innovation that has a long lifespan and can be reused.
- › **Eco-friendly:** after use, the material can be disposed of with household waste, i.e. the process produces no hazardous waste.
- › **Independently inspected:** Chabel® Thermo Protect has been tested and certified by the German Research Institute for Thermal insulation FIW Munich.
- › **Quick return on investment (ROI):** in most cases, the costs of installing Chabel® Thermo Protect can be recouped within a short period of time.

Product Range

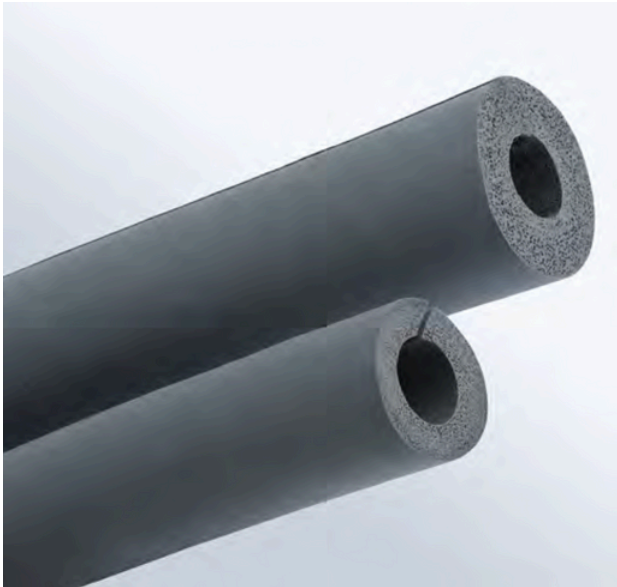
It is available in two different variations.

Chabel® ThermoProtect



Product Range

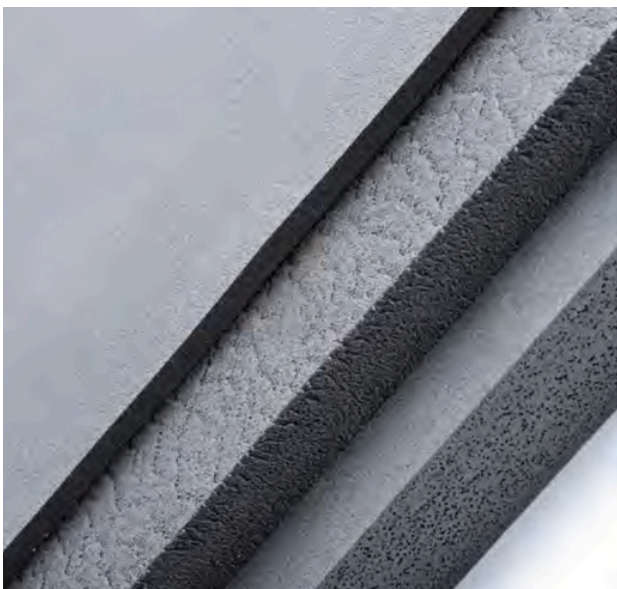
A comprehensive product range: Chabel® Thermo Protect is available in different forms – including molded elements, sheets, and hoses.



Hoses: vulcanized hose insulation elements are particularly flexible and robust. Pre-slit hoses are available in various thicknesses. Closed insulation elements are also available.



Molded elements: we offer pre-manufactured and vulcanized molded elements for quick insulation of valves and fittings. Various formats are available to cover the most frequently used standard sizes of fittings. We can also supply made-to-order items.



Sheets: unvulcanized sheets are suitable for customized and flexible insulation of flanges, fittings, and complex line systems, as well as machines and other systems.



Paste: the paste is supplied in cans for easy dispensing of the unvulcanized insulation material, making this the perfect solution for sealing slots and holes. An ideal add-on when using Chabel® Thermo Protect.

Accessories: our range of accessories widens the potential applications for Chabel® Thermo Protect. For example, we offer matching closure systems for reliable closure of the molded elements. A silicone adhesive is also available.

Chabel® Thermo Protect

Hot Spots - We fill the gaps

With the innovative insulation system from Chabel, thermal insulation is less complicated and more efficient – particularly in the case of complex line and piping systems.

Chabel® Thermo Protect is an ultra-flexible insulation system. It is particularly easy to process, and is ideal for the thermal insulation and protection of flexible and complex components, for example convoluted hoses, piping systems, and components that are resistant to dynamic loads. Chabel® Thermo Protect consists of a special silicone rubber compound and provides reliable insulation, especially in setups involving high temperatures.

In areas, where conventional insulation systems exceed their functional limits, Chabel® Thermo Protect offers a reliable solution.

It is available in two different variations:

- › The **uncured product** comes in sheets and can be molded into required shapes, like plasticine. Under the influence of heat, the compound cures within a few hours and becomes a reusable molded element with rubber-elastic properties, just like the cured products.
- › The **cured products** are hoses and pre-manufactured molded components. They allow fast insulation and are also reusable. They are particularly wear-resistant and flexible at the same time.

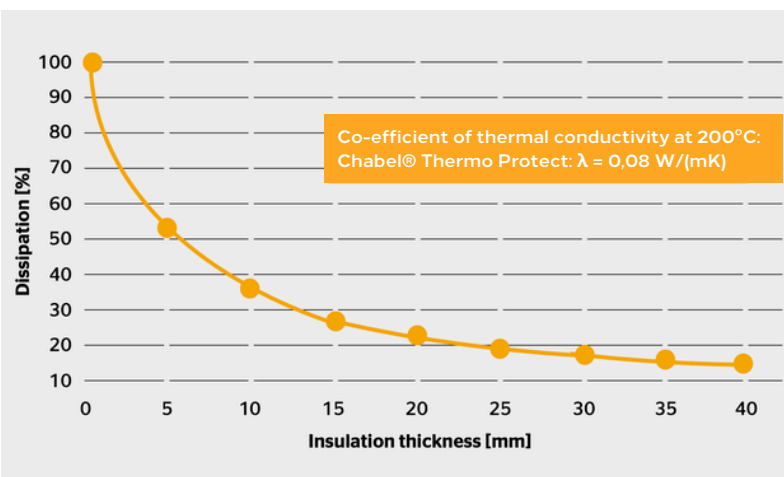
The moldable compound can be attached easily to fittings and valves that were previously very difficult or even impossible to insulate. Both, hoses and molded elements, are suitable for the high-temperature range up to 250 °C.

Chabel® Thermo Protect provides a reliable shield against heat and saves significant energy costs – for example in heating or thermal oil installations and in vulcanization presses.



Easy to process and extremely flexible: Chabel® Thermo Protect insulation provides a reliable shield against heat and saves energy costs.

Approx. values for the reduction in heat dissipation with Chabel® Thermo Protect insulation



In comparison to mineral wool at 200°C according to ASTM:
 $\lambda = 0.06...0.10 \text{ W}/(\text{mK})$ depending on density and delivery form.



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Would you like to obtain further information
about Chabel B.V. and the isolation products?

Just scan this QR code.