



**HIGH TEMPERATURE INSULATION
INSULATION SYSTEM VM 17**



HIGH TEMPERATURE SOLID INSULATION

The demand for plastically mouldable high-temperature insulation arises everywhere in industry where gases or liquids need to be supplied, removed or transferred without adversely affecting the environment. With the insulation system VM 17, a suitable process has been developed that has proven itself in many areas. We have ensured that no health issues arise in either the manufacturing of insulation or in the use of insulated aggregates.

The insulating system VM 17 is based on the inorganic insulating compound VM 17. This is a non-combustible construction material of the class A1 produced according to DIN 4102 and is applied to the part to be insulated. After drying, a metal-reinforced rex-thermoglass fabric, produced according to DIN 4102 and also a non-combustible construction material of the class A1, is applied using a high-temperature binder and secured at end points, such as nozzles, flanges, and lugs using by metal strips.
Finish: Coating with a temperature-resistant paint.

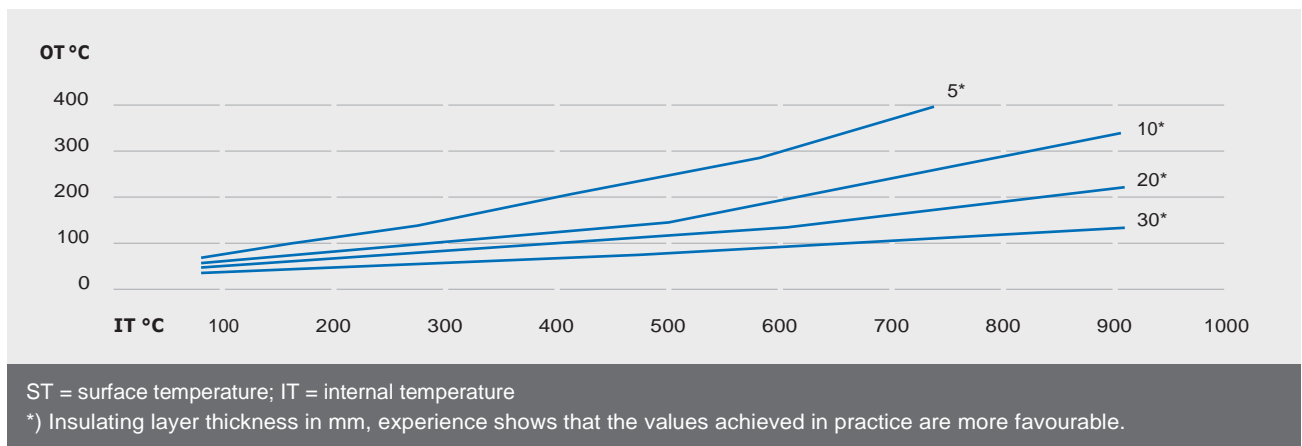


THERMAL CONDUCTIVITY OF INSULATING COMPOUND VM 17 (TWO-PLATE METHOD)

Mean temperature (°C)	100	200	300	400	500	600	700	800
(W/mK)	0.13	0.14	0.15	0.16	0.18	0.20	0.21	0.23

THERMAL INSULATION OF THE INSULATION SYSTEM VM 17 DEPENDING ON THE INSULATION THICKNESS

Basics: Ambient temperature of 20 °C; λ_m = see table; α = 27.3 W/m²K



AVERAGE CONSUMPTION OF INSULATING MATERIAL VM 17 FOR A 1 M² AREA

Layer thickness in mm	1	10	15	20	25
Weight in kg (damp)	1.25	12.50	18.75	25.00	31.25
Weight in kg (dry)	0.55	5.50	8.25	11.00	13.75

Note

This information can, of course, only represent a template. The details were determined by tests and are considered non-binding guidance. In case of doubt, we recommend carrying out a test adapted to the local conditions. To answer unresolved questions, the employees of our sales organisation are at your disposal - or even better: send us a part for trial insulation!





HIGH TEMPERATURE INSULATION INSULATION SYSTEM VM 17

PROPERTIES

- ▶ high-temperature resistant
- ▶ non-flammable
- ▶ thermal insulation
- ▶ sound-proof
- ▶ largely impervious to shocks

APPLICATION

- ▶ Exhaust systems
- ▶ Turbocharger/housing
- ▶ Flanges
- ▶ Valves and similar parts in engine construction
- ▶ Vehicle construction
- ▶ Shipbuilding



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