

TEM KET

REMOVABLE TEXTILE INSULATION BLANKETS FOR ARMATURES AND EQUIPMENT



Removable insulation blankets for high-temperature equipment



TEMKET

Removable and re-applicable TEMKET insulation blanket for valves, filters, slides, flanges and fittings

Save the energy costs!
Improve safety of the workers!
Abate the noise!
Keep the temperature!
Protect the valuable equipment from mechanical damage!

Installation of the removable TEMKET insulation blanket

Measuring. Our site engineers shall visit your plant, carry out measuring on the spot precisely and they shall help specify suitable materials for your removable insulation blankets. Some applications may be realized without the measuring carried out by our engineer, provided that you have filled the purchase sheet properly. **Production.** Data acquired from the precise measurements and material specification shall be forwarded to our designers; production shall be realized in our plant. We offer fast delivery and we guarantee precision – each of our removable insulation blankets is customized to your equipment in accordance with your instructions. **Installation.** Our service technicians are ready to come back to your plant and install the equipment precisely. We also provide training on installation of your removable insulation blankets. Our commitment is not finished until your requirements have been satisfied.

TEMKET provides wide range of re-applicable insulation blankets customized to your special needs and requirements.

Removable TEMKET insulation blanket is an ideal solution for gas turbines, armatures, valves, filters, slides and other devices involved in the heating process. It insulates hot surface, it provides energy saving, it protects the operators and provides comfortable working environment. Typical use of the blanket is to provide better heat efficiency and minimum energy loss in the equipment. Pliable composition of the removable insulation blanket allows making any complicated shape with perfect surface.

Composition

The insulation blanket is composed of mineral wool, being 40 up to 60 mm wide, and aluminium foil, embedded in two fibreglass cloths coated with silicone or polyurethane prime colour.

Range of Products

The standard-supplied insulation blanket is designed for maximum surface temperature of 300 °C. The blanket designed for higher temperature is delivered as agreed with the customer. Maximum temperature is 1000 °C. Each insulation blanket is to be produced in accordance with the purchase sheet.

Heat Insulation Used

Different insulation materials have their specific temperature limitations. We always choose the heat insulation which is most profitable for the temperature conditions that you have specified. We always delivered the best possible insulation material having the maximum thermal resistance, thermal conductivity $"/math>"/math>, and being environmentally-accepted.$

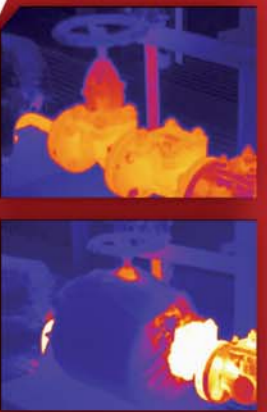
TESTED IN PRACTICE			
Yearlong uninterrupted operation for 8760 hours (365 days)			
Temperature of medium [°C]	150	200	300
Non-insulated valve			
Heat loss [W]	474	763	1 503
Annual loss of energy [kWh/y]	4 155	6 688	13 165
Annual energy costs [CZK/y]	6 233,-	10 032,-	19 747,-
Insulated valve			
Insulation width [mm]	40	50	60
Heat loss [W]	126	192	368
Annual loss of energy [kWh/y]	1 113	1 673	3 215
Annual energy costs [CZK/y]	1 669,-	2 509,-	4 823,-
Calculation of annual savings for an insulated valve			
Annual energy saving [kWh/y]	3 042	5 015	9 950
Annual savings [CZK/y]	4 564,-	7 523,-	14 924,-
Energy saving of an insulated valve [%]	73	75	76

The calculation was made for the stop valve DN 50 PN 16 – ambient temperature of 25 °C, indoors (natural convection), a cost for kWh of energy is 1,50 CZK.

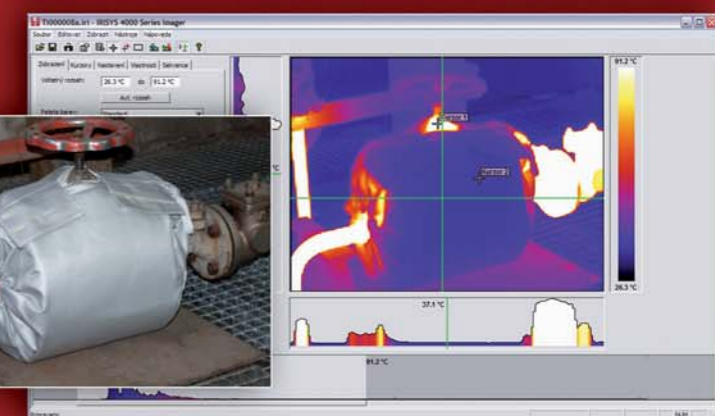
TEMKET a – blanket for surface temperature of the equipment up to 150°C
TEMKET b – blanket for surface temperature of the equipment up to 200°C
TEMKET c – blanket for surface temperature of the equipment up to 300°C

TEMKET produces insulation products for plenty of applications:

- | | |
|------------------------------|-----------------------------------|
| Industry: | Electric power generation: |
| Armatures and flanges | Turbines |
| Valves, filters | Distributors |
| Pumps and equipment | Expansions joints |
| Instrumentation | Turbo |
| Piping and armatures | Flanges |
| Oil & gas: | |
| Armatures | |
| Valves | |
| Flanges | |
| Equipment | |
| Construction industry | |



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TEMKET, removable insulation blanket made of TEMTEX industrial fabrics:

- allows insulation armatures, equipment, piping and bends in a very easy way
- significantly eliminates heat loss and reduces power costs
- has been designed to protect workers from being burnt
- could be placed and removed extremely simply
- has been designed for re-application
- is washable
- special surface is chemically resistant and resistant to oil products
- Made in the Czech Republic

Sample picture of thermo-camera