



Tailor-made Blankets

Tailor-made blankets offer excellent solutions for heat insulation of complex parts and of complex shapes or when it is often necessary to fit and remove insulation for inspection of valves, flanges, turbines, combustion chambers and expansion joints. They are made with outer surfaces in glass or silica fabrics, to be used at temperatures between 200°C and 1000°C.

The fabrics used can be waterproof or resistant to atmospheric agents by silicon coating or application of aluminium foils.

The interior insulation is made of rock wool felt, glass fibre or amorphous soluble fibres.

Type of insulation, thickness and density can be varied according to the required temperature reduction.

The lacing system may use special hooks, hangers and washers in stainless steel.

Tailor-made blankets are flexible and are manufactured as follows:

External protective surface

Generally a fabric from TVR or TVT or TS series, standard or treated, is designed to contain the insulating felt, to protect it from external abrasions, to form a barrier against liquids and to support fitting accessories.

Flexible, compact and mechanically resistant insulation felt

The choice of insulation felt is determined by two main factors:

- Temperature of the surface to be insulated
- Presence of vibrations

Conditions	Temperature		
	up to 300°C	from 300 to 600°C	from 600 to 1000°C
no vibrations	Rock wool	Glass needle mat	Amorphous soluble fibre
vibrations	Glass needle mat	Glass needle mat	Amorphous soluble fibre

Internal heat resistance surface

Generally a fabric from TVR or TVT or TS series is designed to contain the insulation felt, to protect it from the temperature of the hot contact surface.

Accessories for manufacturing and fitting

The main rapid system for sealing the edges of the insulating blankets is the applications of special stainless steel clips.

Another system of edging is sewing with tefloned glass fibre thread or steel thread.

In case of large size blankets, in order to keep the blankets stable and compact, stainless steel harpoons are used.

To fasten the blankets each other, special stainless steel hooks are used, tied together by a glass fibre cord or by stainless steel springs.

Advantages

- Effective reduction in heat loss
- Easy to install (no need for specialized personnel)
- Light and easy to handle (easy to remove and replace for maintenance)
- Flexible and strong (can be applied to inaccessible parts or adapted to any other equipment)