

# Thermos® Exhaust and Silencer Jackets

## Description

Thermos Exhaust and Silencer Jackets are tailor made using long strand glass or rock fibre, typically encapsulated in combinations of glass or silica coated fabrics. A knitted wire mesh hot face barrier may be incorporated to ensure integrity. Jackets may also include lightweight stainless steel on the inner face as an alternative. Edges may be bound and sewn using stainless steel threads. A wide range of fixings and fastenings can be incorporated into the jackets including straps and buckles, Velcro, hooks, eyelets and draw strings.



Thermos Exhaust and Silencer Jackets are designed for high temperature applications or wherever there is a requirement for insulation to be removed and re-fitted at frequent intervals. Performance requirements for thermal insulation, acoustic insulation, personnel protection or a combination of all, dictate specification.



## Colour

Needle mat fibre	-	White or Greyish Brown
Inner face	-	Grey, Black, White or Metallic
Outer face	-	Grey, Black, White or Metallic

## Application

Thermos Exhaust and Silencer Jackets are used extensively in cars, buses, lorries, railway carriages, construction and materials handling equipment. They are also frequently required for large scale engines in marine and power generation applications.

## Design, Prototype and Testing

Highly qualified technical staff are available to work with engine, exhaust and silencer design teams to take projects through from original concept, to prototype and testing and onto volume production. Technical advice is available throughout the process to ensure overall performance objectives are achieved.



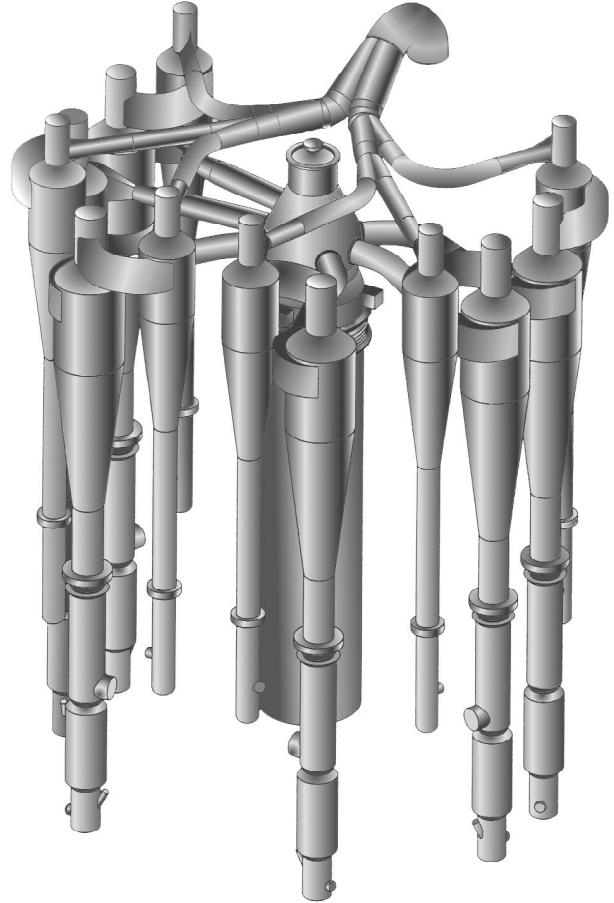
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## Manufacturing

Thermos Jackets were prototyped, designed and manufactured at Hodgson & Hodgson Group Ltd's Burton-on-Trent factory for the Cottbus Power Generation Plant in East Germany, built by ABB Carbon Sweden. Each of the cyclones illustrated were 12m in height and of variable diameters up to 1.2m. Jacketing was double layered and made up of over 1500 separately dimensioned pieces.



## Operating Temperature

Thermos Exhaust and Silencer Jackets can be designed to withstand direct contact with surface temperatures up to 1200°C.

## Fire Performance

Thermos Exhaust and Silencer Jackets are generally designed to be non-combustible.

## Acoustic Performance

Thermos Exhaust and Silencer Jackets can be designed to meet specified acoustic performance requirements and incorporate improved sound barrier materials if appropriate.

## Thickness and Density

Thickness Range mm	Size mm	Density Range Kg/m <sup>3</sup>
from 6 to 100	to fit application	10 to 200

Note: Thermos Exhaust and Silencer Jackets are generally individually designed to fit any size, shape and contour of exhaust and silencer. They can be manufactured with an almost infinitely variable combination of materials.

**For Further  
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