

THERMAL

SILICON HEAT BLANKETS



CUSTOM THERMAL INSULATION FOR ENGINES, EXHAUST PIPES AND MUFFLERS

Due to our client's demand for seeking a reliable thermal solution, capable of combating heat and protecting against oil spills or hydraulic leaks, we've decided to add our custom-tested Thermal Blanket to our product range.

With innovative **Aluminium Coated Silica Glass** technology (*not mesh*), it provides reliable protection against extreme temperatures, surpassing other thermal solutions in the market.

APPLICATIONS	EXHAUST SYSTEMS	DIESEL ENGINES	FIRE PUMPS
COMPRESSORS	GENERATORS	HEAVY VEHICLES	MINING EQUIP.

FEATURES & ADVANTAGES

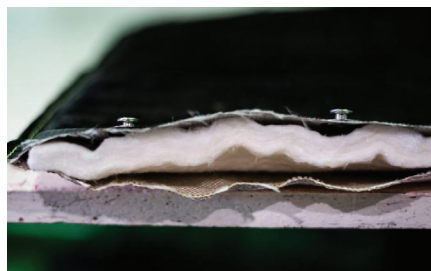
Custom-made ■ High-Quality (Asbestos Free) ■ Resist Temperatures up to 1200 °C ■ Minimum Distortion ■ Easy Installation

THE INNOVATIVE UNIQUE MATERIALS



HOT FACE

Using Aluminium Coated Silica Glass instead of mesh has proven successful. It doesn't transfer heat like mesh does, reflecting heat to keep the outer layer cooler. It also prevents absorption of flammable liquids, reducing the risk of combustion.



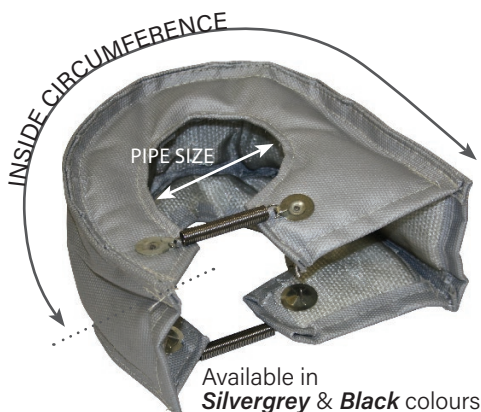
INSULATION

The needle mat layer is made from silica glass needle felt which not only has better thermal properties than the commonly used fibreglass needle mat; it is also a lot less irritating to the skin, making it easier to work with when fitting.



COLD FACE

The outer layer is known as the "Cold Face", which consists of a fibreglass cloth is coated in a variety of different materials such as Silicone, Aluminium or Teflon. Silicone coating is popular on mobile underground plants, as it is non-absorbent, and repels oils and other flammable liquids that may cause a fire.



CODE	WIDTH	PIPESIZE (COLD)	PIPESIZE (HOT)	INSIDE CIRCUMFERENCE
STC300	3"	3"	3"	400mm
STC350	3.5"	3.5"	3.5"	480mm
STC400	4"	4"	4"	500mm
STC500	5"	5"	5"	520mm
STC500-C13	5"	5"	5"	850mm
STC504-K19	5"	5"	4"	850mm
STC704-EGR	5"	7"	4"	850mm

THERMAL BLANKET HEAT TESTING

We regularly test new products to ensure the best solution. Our thermal blanket has proven to reduce the external temperature by 24% on average.

The material with mesh layers as seen in photo #2 performed poorly as the mesh conducted heat over time.



Photo #1



Photo #2



Photo #3



Photo #4

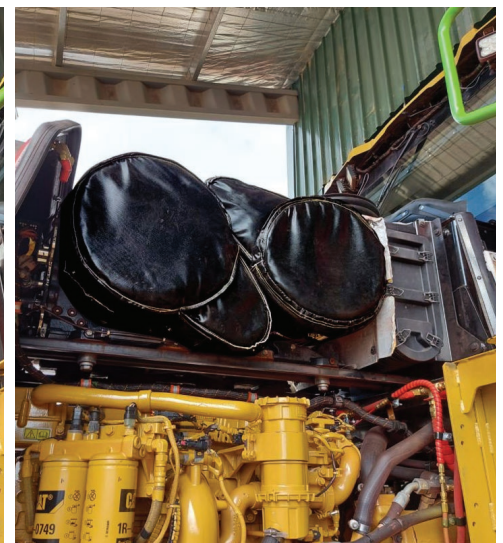
THERMAL BLANKET OIL TESTING

We tested the repelling properties of various insulation types. In Photo #3, You can see that the oil was absorbed by the inner layer of the blanket, which could be a potential hazard.

However, the Flowtech Thermal Blanket, shown in Photo 4, effectively repels oil.

BEFORE AND AFTER

A prime illustration of a customised thermal blanket expertly installed on a generator, effectively mitigating excessive heat.



FEW OF OUR THERMAL INSTALLATION PROJECTS

