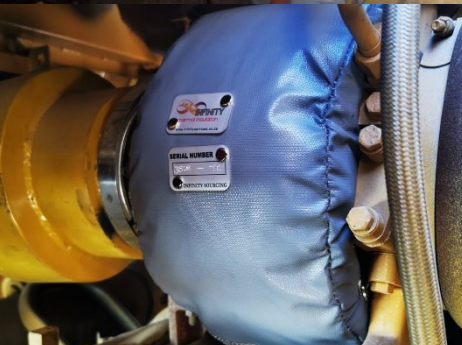




QUALITY REMOVABLE THERMAL SHIELDS FOR THE MINING, INDUSTRIAL AND MARINE SECTOR



Removable Insulation Blankets:

Infinity Thermal Pty Ltd Removable Insulation Blankets are used to insulate engine parts, exhaust piping and components, industrial process piping and machinery. In particular applications which use diesel engines, such as power generation, off highway equipment, trucks, light vehicles, and marine vessels, they often require insulation blankets to manage the heat that these engines generate.

With our extensive library of patterns and designs we can offer custom removable blanket kits to suit nearly all makes of engines and machines including Caterpillar®, Atlas Copco, M.T.U, Detroit, Komatsu, Liebherr, Hitachi and Terex.

What are Removable Insulation Blankets used for?

Infinity Thermal Pty Ltd Removable Insulation Blankets are used effectively to:

- Protecting employee personnel from burn related injuries therefor reducing OH & S risks
- Increase exhaust system efficiencies and reduce engine compartment temperatures
- Protecting hoses, wiring, and solenoids from excess heat generated from engines and exhaust systems
- Reduce the potential of fires hazards caused by hydraulic oil and diesel leaks igniting on hot surfaces

Many Mine and Construction sites OH & S regulations stipulate a mandatory requirement for all machines to meet thermal protection standards of which **Infinity Thermal Pty Ltd** has helped countless customers to comply with through the provision, back up support and service of their products.

The dense fibrous composition of some of the materials used for heat insulation is also an effective acoustic absorber and these characteristics can be further increased by using multiple layers within the removable blanket products construction. All materials used in our products meet fire rating standards.



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How are Removable Insulation Blankets Made?

Infinity Thermal Pty Ltd removable insulation blankets are typically constructed in three layers:

The primary inner layer (hot face) is a layer of Silica cloth, with optional internal encasing of Stainless Steel type knitted Wire Mesh and 304 Stainless Steel foil applicable on Turbo and Manifold shields.

The middle layer is a layer of fibreglass needle mat felt or Belcotex Needlemat. The main outer covering layer (cold face) is a silicon impregnated fibreglass cloth. Other options such as Teflon for greater oil and chemical resistance are available for this layer also. This layer can be optioned with an external layer of Stainless Steel Mesh to give even greater durability and strength. This is generally specified where the blankets are removed more frequently for inspection and servicing.

All edges and seams are stitched using high temperature Kevlar® thread and fastening systems are high grade stainless steel anchors, springs and tie wire. The high temperature silicone infused fabric provides greater product durability and improved resistance to abrasion, flexing, tears and punctures. The heavy duty fabric is also oil resistant, flame retardant and acid/alkali impervious.

Blanket Composition and Specification details

Layer	Material	Service temp Deg C	Function
1.Inner (Optional)	Knitted Stainless Steel mesh Stainless Steel Foil (For Turbos and Manifolds only)	650°C - 980°C 650°C - 980°C	Provides extra strength and durability to the inner of the blanket helping to contain insulating media shielding against internal leaks and protecting from internal gas leaks.
2.Secondary Inner	Vermiculite Coated Silica Cloth	1000°C	High temperature resistant insulating cloth layer for the primary high temperatures
3.Middel	E Glass Needle Felt Fibreglass OR Belcotex Needlemat	Option 1: 600°C Option 2: 1000°C	This insulating layer is the material which provides the main reduction in temperatures emanated from the heat source
4.Outer	Silicone Impregnated fibreglass	315°C	Protective outer layer