

Product selection table Anamet heat protection products.

Product	Material	Material	Temp. (°C) Continue		Temperature short term		Resistance		Approvals		Page
			Min.	Max.	20 min.	15-30 sec.	Oil	Splash			
 Hiprojacket Aero	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+800°C	+1640°C	++++	++++			10-03 10-04
 Hiprojacket Industrial	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+800°C	+1640°C	++++	++++			10-05 10-06
 Hiprojacket Light	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+538°C	+1200°C	++++	++			10-08
 Hiprotape	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+800°C	+1640°C	++++	++++			10-09 10-10
 Hiprosiltape	-	Silicone Halogen-free RoHS	-55	+260	-	-	++++	++			10-11
 Hiproblanket Wrap H	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+800°C	+1640°C	++++	++++			10-12 10-13
 Hiproblanket Wrap Light	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+538°C	+1200°C	++++	++			10-14
 Thermojacket	Glass fibre Saturated	-	-55	+538	-	-	-	-			10-15 10-17
 Hiproblanket light	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+800°C	+1200°C	++++	++			10-18
 Hiproblanket	Glass fibre	Silicone Halogen-free RoHS	-55	+260	+800°C	+1640°C	++++	++++			10-19 10-20
 Silicablanket	Silica fibre	-	-55	+1090	-	-	-	-			10-21

PRODUCT SELECTION TABLE

Engineering data heat protection products

The right choice of heat protection materials is important for the functioning and durability of the equipment.

The heat protection materials of Anamet Europe B.V. can basically be divided into 3 groups:

1. Hipro-products, consisting of an E-glass fibre base, covered with iron-oxide silicon rubber.
Temperature range: -55 °C till +260 °C continuous, +800 °C for approx. 20 minutes and +1640 °C for 15-30 seconds

Flammability : UL-94 V1.
2. Thermo-products, consisting completely of E-glass fibre.
Temperature range: -55 °C till +538 °C continuous.
3. Silica-products consisting of completely amorphous silica fibres.
Temperature range: -55 °C till +1090 °C continuous.

Each product groups are available in various grades and executions, like sleeving, tape, blankets and remountable wraps.

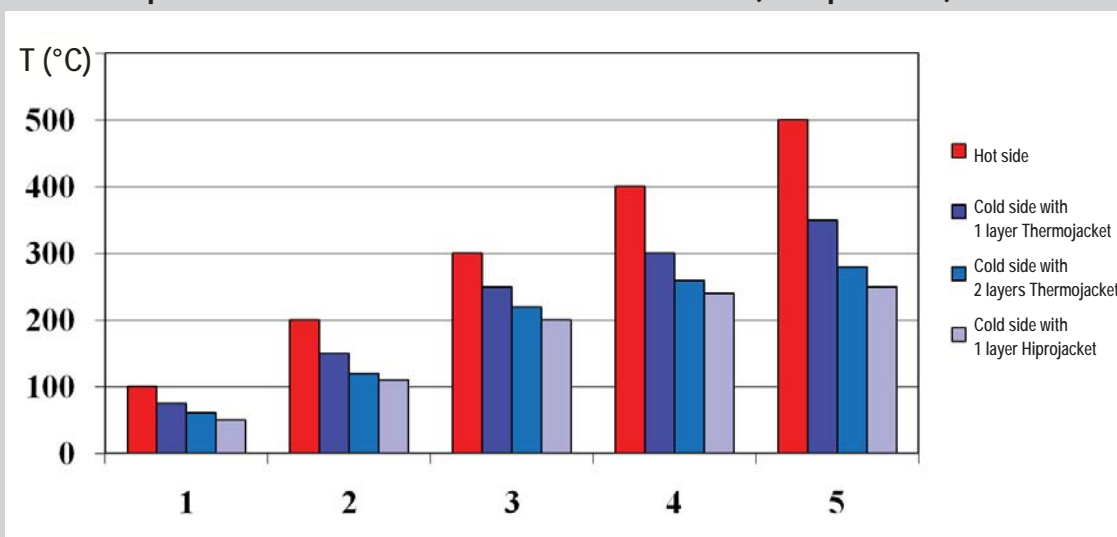
The choice of which product offers the best solution is strongly depending on the exact application.

Thermo- and Silica-products don't withstand open flame exposure and molten splash, like the Hipro-products do.

At the other hand Thermo-and Silica-products offer a good heat protection at higher continuous temperatures than are possible for Hipro-products.

Next to the temperature resistance, there is also a difference in insulation characteristics for the Hipro- and Thermo-products, as shown in the graph below. If however a higher level of insulation is required please refer to page 30 where we have our special high temperature insulation wraps shown.

Thermal protection - hot side versus cold side (Temp. in °C)



Note:

Above mentioned values are based on respectively Hiprojacket Aero and Thermo jacket S (saturated) with the heat source at the inside of the sleeving. For additional information on specific conditions, please contact your Anamet representative.

When Hipro products exposed to flame, the silicone rubber transforms into crust, creating a protective SiO₂ refractory layer. Hipro products withstands repeated exposures to molten steel, molten aluminium and molten glass up to +1650 °C. The heavy coating of our proprietary iron oxide red silicone compound sheds molten metal splashes immediately, so very little heat transfer occurs.



The fibre glass will not burn, retains 75% of it's tensile at 343 °C, softens at 732 °C till 877 °C and melts at 1121 °C till 1182 °C.

The theoretical dielectric strength of our Hipro products is 16.000 V per mm cover thickness, being the characteristic of Silicone rubber. However as the liquid process, to coat the sleeveings, tapes and blankets, allows for possible inclusions of tiny airbubbles or pinholes we cannot guarantee a minimum dielectric strength of the finished product.

ANAMET HEAT
PROTECTION
PRODUCTS

ENGINEERING
DATA