

THERMAL COMPONENTS

Proventia's thermal insulation components are designed with two primary elements: insulation materials and moldable outer shells.

Our insulation materials are engineered to withstand extreme temperatures, providing excellent thermal stability and low thermal conductivity. Preserving temperatures can be equally important, as it significantly influences the performance of systems like exhaust aftertreatment. Proventia offers a variety of insulation materials tailored to meet the diverse needs of different applications. By selecting the appropriate insulation materials, industries can achieve optimal performance in their thermal management objectives.

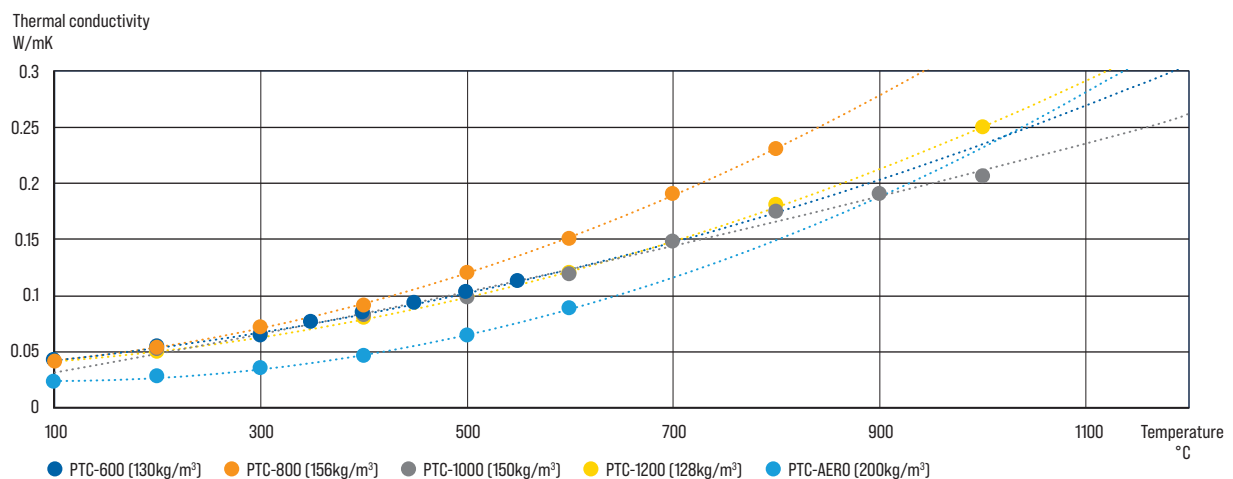


INSULATION MATERIALS



Physical properties	PTC-Mat 600™	PTC-Mat 800™	PTC-Mat 1000™	PTC-Mat 1200™	PTC-Aero Mat™
Base material	Needled E-glass mat	Needled ECR-glass mat	Needled Silicafiber mat	AES blanket	Aerogel Microporous blanket
Fiber diameter (µm)	9-13	6-11	6-11	2-4	6-12
Thickness (mm)	3-25	4-25	4-25	6-50	5-10
Weight (kg/m³)	100-160	100-160	100-160	64-128	200
Max. Application temperature (°C)	650	850	1050	1200	650
Annealing point (°C)	840	925	1400	1350	850
Ignition loss (%)	Max. 2 at 600°C	Max. 8 at 800°C	Max. 6.5 at 1000°C	Max. 1 at 1200°C	Max. 2 at 650°C

THERMAL CONDUCTIVITY OF VARIOUS MATERIALS



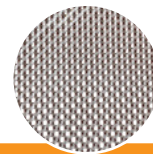
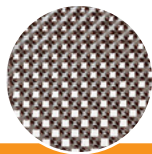
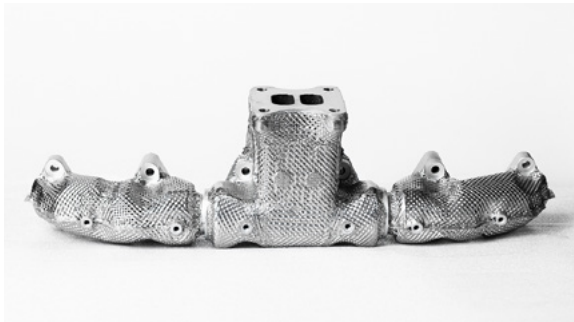
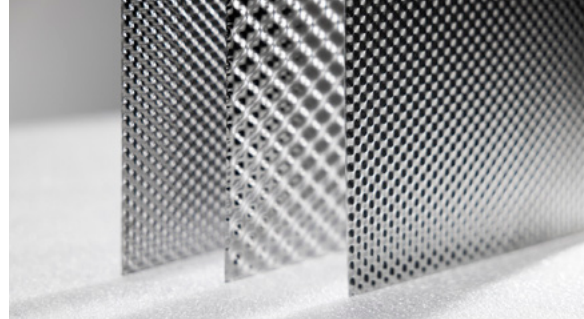
PROVENTIA

THERMAL COMPONENTS

INSULATION FOILS

The outer shells are made of stainless steel or aluminium foils, which can be molded into any complex 3D shape. The edges of the shells are securely folded for a perfect fit. Foils can also be used as heat shields without insulation material.

Our range of foils offers benefits such as fire and corrosion protection, lightweight construction, and enhanced durability.



Physical properties	1.4016 / AISI430	1.4301 / AISI304	1.4828 / AISI309	AW1050
Base material	X6Cr17	X5CrNi18-10	X15CrNiSi20-12	Al99.5
Material thickness (mm)	0.15	0.15	0.15	0.5
Max. Application Temperature [°C]	815	850	950	600
Applications	Offroad	Onroad / Offroad	Extreme	General

CONTACT US

Interested in our products and services?
Give us a call or send an email!



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