

**Features/Applications**

GREMSHIELD® 450PAN5000 is a flexible nonwoven needle-felt made with oxidized fibers. GREMSHIELD® 450PAN5000 offers a very high continuous working temperature higher than +500°C. GREMSHIELD® 450PAN5000 is suitable for thermal insulation, containment and flame resistance. Used within the automotive sector.

**Various**

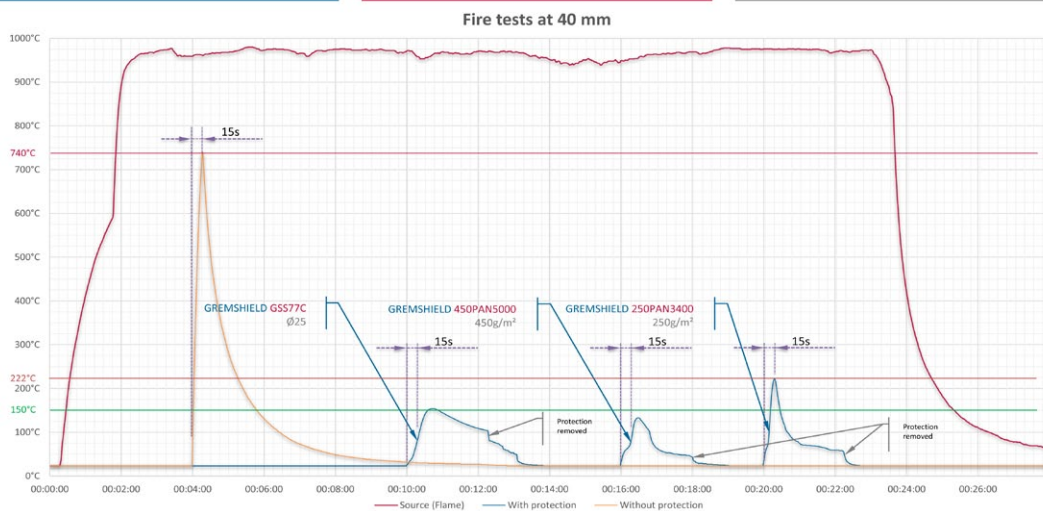
Standard colours: Black.

**Dimensions**

These parts are tailor-made to each customer’s application.

GREMTEK’s engineering department has significant application and design expertise. The designer teams will work with the customer to identify the best design in order to achieve the specified requirements. The heat shields can be formed and shaped using a variety of methods from hook and loop, to press studs, to sewn solutions.

**GREMTEK Results**



Property	Values	Test Methods
<b>Physical</b>	Working temperature	-40°C to >+500°C
	Nonwoven	Oxidized fibers
	Thickness	5 ±0,5 mm
	Total weight	450 g/m <sup>2</sup>
	Thermal conductivity	0,045 W/m.K
Flammability	M1	NF P 92-503
	V0	UL 94
	Type A	D45 1333 / FMVSS302
	Fluid resistance	No degradation

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Whilst every attempt is made to provide data that is as accurate as possible the values provided should be treated as a guide only. It remains the responsibility of the user to test the product and determine suitability. GREMTEK shall not be held responsible for any loss or defect resulting from incorrect, improper or inappropriate use of this product.