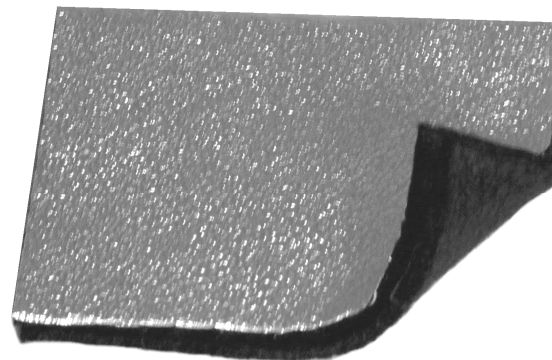


# TEKNOFIBRA®

## TEKNOFIBRA 140g autoadesivo / termoriflettente

- **Dimensioni:** altezza 1500 mm
- **Fornitura:** rotoli, fustellati o a specifica cliente.
- **Peso:** 520 g/m<sup>2</sup>
- **Finitura:** Alluminio 99%, gofrato riflettente.
- **Posa:** Adesivizzato con liner di protezione.  
Temp. massima superficie di posa 250°C



### Caratteristiche della fibra

1.	<b>CLASSIFICAZIONE REAZIONE AL FUOCO</b>	-	B-s0,D0	-	UNI EN 13501-1:2009
2.	<b>COMPORTAMENTO AL FUOCO</b>	-	Good	-	DIN 4102
3.	<b>CONDUCIBILITA' TERMICA</b>	$\lambda$	0,029	W/mK	Alla temperatura di 40 °C e pressione di 1013 mb.
4.	<b>EMISSIVITA'</b>	$\xi$	0.039 ÷ 0.057	-	Valori legati alle condizioni superficiali
5.	<b>RESISTIVITA' ELETTRICA</b>	R	10 <sup>8</sup>	$\Omega$ m	A differenza del carbonio Teknofibra® è elettricamente isolante
6.	<b>DENSITA'</b>	$\rho$	78	Kg/m <sup>3</sup>	Tessuto non tessuto a bassissima densità
7.	<b>ASSORBIMENTO UMDITA'</b>	$\Delta\rho$	13%	-	Elevata capacità di assorbimento e di conservare le proprietà coibenti in condizione di condensazione temporanea.
8.	<b>INFIAMMABILITA'</b>	LOI	55	-	RINA 4589-3 Teknofibra® necessita di una percentuale di O <sub>2</sub> superiore a 0,55 per poter bruciare.
9.	<b>STABILITA' TERMICA</b>	t	350	°C	Teknofibra® resiste indefinitamente alla temp.di 350°C e senza sostanziali deterioramenti a picchi anche oltre i 600°C.
10.	<b>TOSSICITA'</b>		NO		100% Atossico e fisiologicamente sicuro.

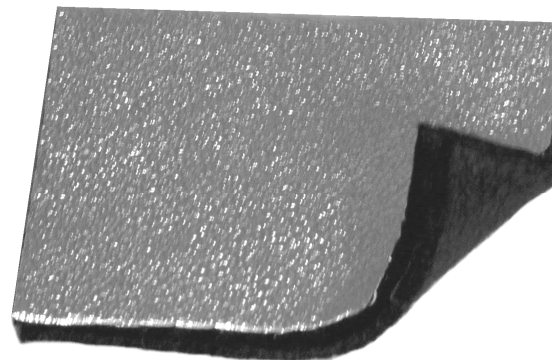
[info@teknofibra.it](mailto:info@teknofibra.it)

[www.teknofibra.it](http://www.teknofibra.it)

# TEKNOFIBRA®

## TEKNOFIBRA 280g autoadesivo / termoriflettente

- **Dimensioni:** altezza 1500 mm
- **Fornitura:** rotoli, fustellati o a specifica cliente.
- **Peso:** 640 g/m<sup>2</sup>
- **Finitura:** Alluminio 99%, gofrato riflettente.
- **Posa:** Adesivizzato con liner di protezione.  
Temp. massima superficie di posa 250°C



### Caratteristiche della fibra

1.	<b>CLASSIFICAZIONE REAZIONE AL FUOCO</b>	-	B-s0,D0	-	UNI EN 13501-1:2009
2.	<b>COMPORTAMENTO AL FUOCO</b>	-	Good	-	DIN 4102
3.	<b>CONDUCIBILITA' TERMICA</b>	$\lambda$	0,029	W/mK	Alla temperatura di 40 °C e pressione di 1013 mb.
4.	<b>EMISSIVITA'</b>	$\xi$	0.039 ÷ 0.057	-	Valori legati alle condizioni superficiali
5.	<b>RESISTIVITA' ELETTRICA</b>	R	10 <sup>8</sup>	$\Omega$ m	A differenza del carbonio Teknofibra® è elettricamente isolante
6.	<b>DENSITA'</b>	$\rho$	78	Kg/m <sup>3</sup>	Tessuto non tessuto a bassissima densità
7.	<b>ASSORBIMENTO UMDITA'</b>	$\Delta\rho$	13%	-	Elevata capacità di assorbimento e di conservare le proprietà coibenti in condizione di condensazione temporanea.
8.	<b>INFIAMMABILITA'</b>	LOI	55	-	RINA 4589-3 Teknofibra® necessita di una percentuale di O <sub>2</sub> superiore a 0,55 per poter bruciare.
9.	<b>STABILITA' TERMICA</b>	t	350	°C	Teknofibra® resiste indefinitamente alla temp.di 350°C e senza sostanziali deterioramenti a picchi anche oltre i 600°C.
10.	<b>TOSSICITA'</b>		NO		100% Atossico e fisiologicamente sicuro.



## **Brief presentation of Product and Company**

### **The factory**

The site for our new headquarters and production plant is the strategically-located town of Corbetta, 15km from Milan and 30km from Malpensa international airport. . The new building stands on a 12,000 m<sup>2</sup> site with an indoor area of 6,000 m<sup>2</sup> .

### **Our Best Customers**

**Auto racing:** Red Bull F1 Renault F1, McLaren F1, Lotus, BMW sport europe, sport Audi, SEAT Sport Europe, Formula Nascar, Formula Indy, Ferrari GT formula Europe, Porsce formula GT and the most representative Rally teams in europe.

**Italian motorcycle racing:** Yamaha SBK official (Gerla di Lesmo) Aprilia SBK official (Noale) and also the best experts in the power elaboration of engines Ducati, Honda, Yamaha, Aprilia, Suzuki and the most representative teams of the world wide championship of SBK and Moto 2.et cetera.

### **Teknofibra technical characteristics**

<b>Thermal conductivity</b>	<b><math>\lambda = 0,029 \text{ W/mK}</math></b>	At a temperature of 40 ° C
<b>Surface emissivity</b>	<b>0,039 - 0,057</b>	Aluminum coating 99%, embossed
<b>Electrical resistivity</b>	<b><math>10^8 \Omega\text{m}</math></b>	
<b>Density</b>	<b>78 Kg/m<sup>3</sup></b>	Density of the felt only
<b>Moisture absorption</b>	<b><math>\geq 13\%</math> peso</b>	
<b>Flammability - LOI</b>	<b>&gt; 50</b>	RINA 4589-3
<b>Fire classification</b>	<b>B-s0,D0</b>	EN UNI 13501-1:2009

Teknofibra®, thanks to carbon fibers which constitute the technological essence, has the following unique characteristics:

- Totally non-toxic and physiologically safe
- Does not burn
- It does not produces emissions toxic or harmful in case of fire
- Absorbs a high amount of moisture
- Excellent acoustic performance

teknofibra is a very light material:

Teknofibra 140g	520 g/m <sup>2</sup>
Teknofibra 280g	670 g/m <sup>2</sup>
Teknofibra Contact	1810 g/m <sup>2</sup>

Teknofibra is provided with a coating that is heat-reflecting / low-emissivity on one side and with the application on the opposite side of a special adhesive resistant up to 250 ° C.

### **Teknofibra contact technical characteristics**

Performance of Teknofibra have been implemented in conjunction with a special adhesive to a sheet of corrugated and reflective aluminium. A proper use of this product, will exploit over high resistance of our fabric, also the high thermal resistance surface and the dispersion of the adduction energy of the aluminium sheet. A fairing treated with “teknofibra contact” contact with an exhaust pipe at a temperature of 800 ° C (localized contact localized), reaches on the outer surface a temperature of 40 ÷ 80 °C.



### **Most important applications of Teknofibra in motorcycle racing**

1. Protect the body and belly near the exhaust pipes.
2. Placed between the airbox and the throttle body, allowing the flow of cold air
3. Applied below to the fuel tank to maintain a lower fuel temperature
4. Applied to the oxide tank and oil tank for the shock absorbers, and whatever is found in close proximity to the exhaust pipes .Helps keep the temperature of gas and oil stable.
5. Putting Teknofibra around the battery cables helps avoid problems with the ECU
6. Placed under the saddle to protect the driver from the heat of the motor and the exhaust pipes
7. Teknofibra can be used in any situations where problems of extreme heat arise.

### **Distribution of Teknofibra for racing cars**

*Teknofibra is currently distributed in the following countries:* Italy, Germany, France, England, Spain, Holland, the United States of America, Australia and Argentina.

### **Support to the new distributors**

When the distributor has provided us with a list of customers, we will visit them doing a demonstration of how it works Teknofibra (see demo CD attached), we will provide to the client the technical specifications, and also some samples of Teknofibra. Our expert advice is always available to the customer

After concluding the presentation, we will inform the customer that the orders can be made exclusively out by the distributor.

We can also consider the possibility of offering the presence of Teknofibra at national exhibitions of the racing sector.

### **Research & development**

Our Company, is equipped with a center for research and development.

In our labs are realized and experimented new products relating to the protection of the heat, are studied solutions of problems that the customer submit to us, are produced products tailor-made to the customer.

### **Ing Maurizio Molteni**

R&D TEKNOFIBRA

*m.molteni@teknofibra.it*



Figura 1 – Set-up di prova (1)



Figura 2 – Set-up di prova (2)