



## CELLO® F800 FR • CELLO® F800 FR ALG-01

**Cello® F800 FR:** White polyester non-woven for noise absorption and thermal insulation purposes, meets the highest requirements of a wide range of flammability tests.

**Cello® F800 FR ALG-01:** Same as F800 FR, but front face laminated with a embossed corrosion-resistant aluminum foil.


**Cello® F800 FR/53:** Laminated with a polyester non-woven (anthracite).

Applications: Buses/utility vehicles, heating/ventilation/AC systems, machine construction, sound conditioning, rail vehicles, motorboats/yachts



Completely recyclable

### TECHNICAL DATA

FLAMMABILITY	F800 FR	F800 FR ALG-01
FMVSS 302, DIN 75200	fulfilled	fulfilled
ISO 3795	burning rate < 100 mm/min	burning rate < 100 mm/min
DIN 4102	tested according to B1 (50 mm)	not tested
ECE-R 118	annexes 6, 7 + 8 fulfilled (≥ 5 mm) (NK) Flame propagation: 0 mm/min	annexes 6, 7 + 8 fulfilled (≥ 13 mm)
EN 45545-2 	not tested	requirement R1 + R7 + R17, HL 3 fulfilled (≥ 5 mm)
UNI 8457	Category I (20-50 mm), test method: wall	not tested
UNI 9174	Kategorie I (20-50 mm), test method: wall	not tested
ISO 4589-3	not tested	complies with oxygen index requirements (OI) = 41 %, fulfilled
DIN EN 13501	B-s1, d0 (10 mm) (NK)	not tested

### TECHNICAL DATA

TEMPERATURE RESISTANCE	-50°C to +150°C
THERMAL CONDUCTIVITY / EN 12667	≤ 0.037 W/(m·K) at 10°C (F800 FR + F800 FR ALG-01)
DENSITY / DIN EN 29073-1	30 kg/m <sup>3</sup> ± 10%
TIGHTNESS / ECE-R 118.01, APPENDIX 9	Diesel, oil and water coming into contact with the surface cannot seep into the non-woven. (F800 FR ALG-01)
DIMENSION CHANGE WHEN EXPOSED TO HEAT	up to 150°C: max. ± 10%

### DIMENSIONS

PRODUCT	THICKNESS [mm]	THICKNESS TOLERANCE	SHEETS* [mm]
F800 FR F800 FR ALG-01	10, 20, 30, 40, 50, 60, 80	± 10%, at 10 mm: ± 25%	2100 X 1250

Other thicknesses / dimensions on request. Ready-to-use parts according to your specifications or drawing.

\*Untrimmed: Effective dimensions guaranteed as ordered, may be exceeded by some layers (foam, film, non-woven etc.).

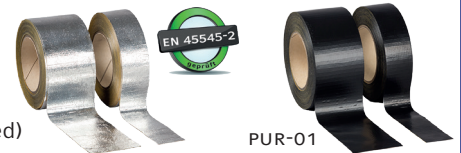
## MORE INFORMATION

### BENEFITS

- ▶ Excellent sound absorption values and thermal insulation
- ▶ High temperature resistance
- ▶ Fulfills high requirements regarding fire performance
- ▶ High shape stability. In vibration tests, the fiber composite shows no tendency to break up
- ▶ Very good resistance against hydrolysis and UV light
- ▶ For ceiling installation: meets impact resistance test acc. to DIN 18032-3 (50 mm, F800 FR)
- ▶ The aluminum foil protects the material against the penetration of liquids, ensuring that the product meets the highest hygiene requirements (F800 FR ALG-01)

### ADVICE

- ▶ When applied on vertical surfaces or overhead, additional mechanical fixation is recommended.
- ▶ Sheets must be stored in vertical position
- ▶ For sealing trimmed edges, we recommend:
  - » F800 FR ALG-01: Adhesive tape Cello® ALU-01 (tested acc. to EN 45545-2 meets requirements R1 + R7 + R17, HL 3 and water vapor tightness as per ISO 15106-3 fulfilled)
  - » F800 FR HT: Adhesive tape Cello® PUR-01



## OPTIONS

(FURTHER OPTIONS ON REQUEST)

... NK no self-adhesive equipment

... SK with self-adhesive finish

F800 FR HT same as F800 FR, but laminated with a black polyester film.

### FLAMMABILITY

- ▶ FMVSS 302, DIN 75 200, fulfilled
- ▶ ISO 3795, burning rate < 100 mm/min
- ▶ ECE-R 118 annexes 6 + 7 + 8 + 9 fulfilled ( $\geq 13$  mm, NK)

F800 FR SD same as F800 FR, but with smoother front face (densified).

### FLAMMABILITY

- ▶ FMVSS 302, DIN 75 200, fulfilled
- ▶ ISO 3795, burning rate < 100 mm/min
- ▶ EN 45545-2: requirement R22 + R23 + R24, HL 2 fulfilled ( $\geq 5$  mm, SK)



## IMPEDANCE TUBE / DIN 10 534-2

