



DATA SHEET



POLYESTER NON-WOVEN

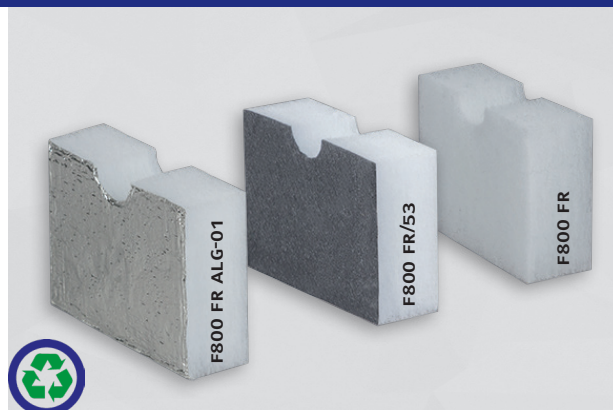
CELLO® F800 FR | CELLO® F800 FR ALG-01

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



Consists of up to 21,9% recycled fibers, mainly from PET bottles.

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 (30 + 50 mm)*	not tested
► ECE-R 118	annexes 6, 7 + 8 fulfilled (NK, ≥ 5 mm) Flame propagation: 0 mm/min	annexes 6, 7 + 8 fulfilled (NK, ≥ 13 mm)
► EN 45545-2 	not tested	R1 + R7 + R17, HL 3 fulfilled (≥ 5 mm)
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/m³ ± 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%	

*glued on plaster board with soniflex adhesive.

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.).

POLYESTER NON-WOVEN

MORE INFORMATION

BENEFITS

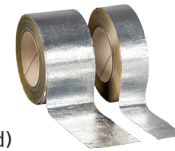
- ▶ Excellent sound absorption values and thermal insulation
- ▶ High temperature resistance
- ▶ Fulfills high requirements regarding fire performance
- ▶ High shape stability. In vibration tests, the fiber composite shows no tendency to break up
- ▶ Very good resistance against hydrolysis and UV light
- ▶ 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

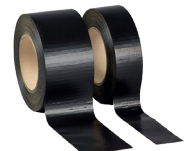
- ▶ When applied on vertical surfaces or overhead, additional mechanical fixation is recommended.
- ▶ Sheets must be stored in vertical position
- ▶ For sealing trimmed edges, we recommend:



- » F800 FR ALG-01: Adhesive tape Cello® ALU-01 (tested acc. to EN 45545-2: R1 + R7 + R17, HL 3 and water vapor tightness as per ISO 15106-3 fulfilled)
- » F800 FR HT: Adhesive tape Cello® PUR-01



ALU-01



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 (NK, ≥ 13 mm)

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: R22 + R23 + R24, HL 2 fulfilled (SK, ≥ 5 mm)



IMPEDANCE TUBE / DIN 10 534-2

