

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

Cello® F800 FR: White polyester non-woven that fulfills 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 corrosion-resistant aluminum foil (0.1 mm).

Cello® F800 FR HT: Laminated with a black polyester film.

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, shipbuilding



Our Cello® F800 FR family

TECHNICAL DATA			
FLAMMABILITY	F800 FR	F800 FR ALG-01	F800 FR HT
FMVSS 302, DIN 75200	fulfilled	fulfilled	fulfilled
ISO 3795	burning rate < 100 mm/min	burning rate < 100 mm/min	burning rate < 100 mm/min
DIN 4102	tested according to B1 (50 mm)	not tested	not tested
ECE-R 118	annexes 6, 7 + 8 fulfilled (≥ 5 mm) Flame propagation: 0 mm/min	annexes 6, 7 + 8 fulfilled (≥ 13 mm)	annexes 6, 7 + 8 fulfilled (5 mm) (sk)
EN 45545-2 2013	see option F800 FR SD	requirement R1, HL 3 fulfilled (≥ 10 mm)	not tested
DIN 5510-2	S4, SR2, ST2 (10-100 mm) and FED ≤ 1 fulfilled	S3, SR2, ST2 (50 mm) and FED ≤ 1 fulfilled	not tested
NF F 16-101	F1 (20 mm)	F1 (10-30 mm)	not tested
NF P 92-501	M1 (10-80 mm)	M1 (10-80 mm)	not tested
UNI 8457	Category I (20-50 mm), test method: wall	not tested	not tested
UNI 9174	Kategorie I (20-50 mm), test method: wall	not tested	not tested
NFPA 130	ASTM E 162, I ₃ = 2.2 ASTM E 662, D ₃ (4.0) = 35	ASTM E 162, I ₃ = 0.4 (10 mm) ASTM E 662, D ₃ (4.0) = 1 (10 mm)	not tested
ASTM E 1354	not tested	HRR 180S (kw/ m ²): n.n / SEA (m ² / kg): 326.1	not tested
IMO FTPC, TEIL 5¹⁾	flame-retardant (5-10 mm)	not tested	not tested
ISO 4589-3	not tested	complies with oxygen index requirements (OI) = 41%, fulfilled	not tested

¹⁾The surface material with low flame-spread characteristics must not be applied to pipes, pipe coverings or cables. EC-Type Examination (Module B), Certificate No. 118.277; U.S. Coast Guard Approval No. 164.112/EC0736/118.277

TEMPERATURE RESISTANCE	-50°C to +150°C
THERMAL CONDUCTIVITY / EN 12667	F800 FR: ≤ 0.038 W/(m·K) at 10°C F800 FR ALG-01: ≤ 0.035 W/(m·K) at 10°C
DENSITY / DIN EN 29073-1	30 kg/m ³ ± 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 / DIN EN ISO 9073-2	SHEETS* [mm]
F800 FR F800 FR ALG-01	10, 20, 30, 40, 50, 60, 80	± 10%, for 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.).

PLEASE SEE OUR PROCESSING AND STORAGE INSTRUCTIONS • ISO 9001 CERTIFIED • MASON GROGAN INDUSTRIAL

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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
- ▶ The aluminum foil protects the material against the penetration of liquids, ensuring that the product meets the highest hygiene requirements (F800 FR ALG-01)

OPTIONS

- NK: no self-adhesive equipment
 SK: self-adhesive rear face
 F800 FR SD: same as F800 FR, but with smoother front face (densified). CEN/TS 45545-2, R23, HL 3 fulfilled (10-35 mm)

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:
 - for F800 FR ALG-01: Cello® adhesive tape ALU-01
 - for F800 FR HT: Cello® adhesive tape PUR-01



ALU-01

PUR-01

IMPEDANCE TUBE / DIN 10 534-2
