



# DATA SHEET



## CELLO® F700 FR HO

## CELLO® F700 FR HO ALG-01

**Cello® F700 FR HO:** Fireproof, oil- and water-repellent polyester non-woven for noise absorption and thermal insulation purposes.

**Cello® F700 FR HO ALG-01:** Same as F700 FR HO, but front face laminated with a embossed corrosion-resistant aluminum foil.

Applications: Buses/utility vehicles, household appliances, heating/ventilation/AC systems, cabins/casings/hoods, machine construction, medical technology, motorboats/yachts, rail vehicles

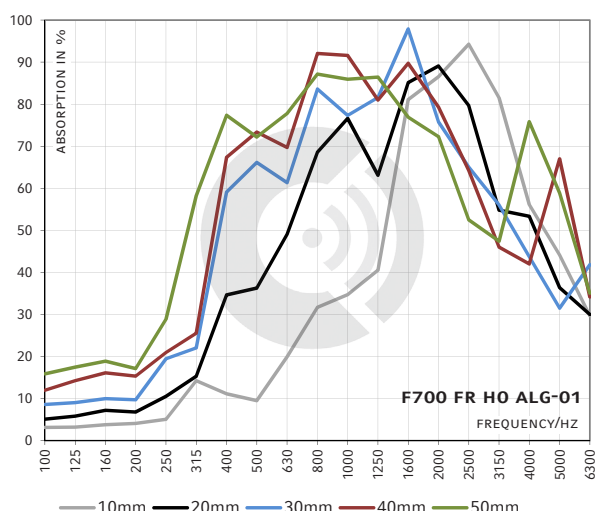
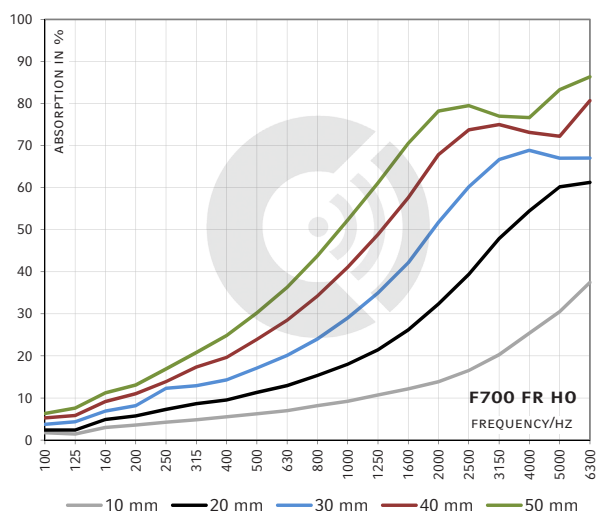


Consists of up to 69% recycled fibers, mainly from PET bottles.

### TECHNICAL DATA

FLAMMABILITY	F700 FR HO	F700 FR HO ALG-01
► FMVSS 302, DIN 75200	fulfilled	fulfilled
► ISO 3795	burning rate < 100 mm/min	burning rate < 100 mm/min
► EN 45545-2	R1, HL 2 fulfilled (SK, 5-80 mm) R1, HL 3 fulfilled (NK, 5-80 mm)	R1 + R7 + R17, HL 3 fulfilled (≥ 10 mm)
► ECE-R 118	annexes 6, 7 + 8 fulfilled (NK, ≥13 mm)	annexes 6, 7 + 8 fulfilled (≥13 mm)
► NFPA 130	not tested	ASTM E 162, E 662 + E 1354 fulfilled (SK, ≥ 5 mm)
► BOMBARDIER SMP 800-C	not tested	fulfilled
► DIN EN ISO 9094	not tested	oxygen index (OI) of at least 21% fulfilled (SK, ≥ 10 mm)
TEMPERATURE RESISTANCE	-50°C to +100°C -50°C to +150°C (except for a potential change of dimensions)	
THERMAL CONDUCTIVITY OF POLYESTER NON-WOVEN	EN 12667: ≤ 0.036 W/(m·K) at 10°C	
DENSITY OF NON-WOVEN	DIN EN 29073-1: 20 kg/m³ ± 10%	

### IMPEDANCE TUBE / DIN 10 534-2



### SEE OUR PROCESSING AND STORAGE INSTRUCTIONS

### ISO 9001 CERTIFIED

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## DIMENSIONS

PRODUCT	THICKNESS [mm]	THICKNESS TOLERANCE / DIN EN ISO 9073-2	SHEETS* [mm]
F700 FR HO	10 - 80	± 10%, at 10 mm: ± 25%	2100 x 1250
F700 FR HO ALG-01	10 - 50	± 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.).

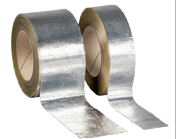
## MORE INFORMATION

### BENEFITS

- ▶ Very good protection against water splashes
- ▶ In vibration tests, the fiber composite shows no tendency to break up
- ▶ Very good resistance against hydrolysis and UV light
- ▶ Does not provide a substrate for mold and fungal growth
- ▶ Excellent sound absorption values
- ▶ The aluminum foil protects the material against the penetration of liquids, ensuring that the product meets the highest hygiene requirements. (F700 FR HO ALG-01)

### ADVICE

- ▶ Sheets must be stored in vertical position.
- ▶ For sealing the edges of F700 FR HO ALG-01, we recommend our adhesive tape Cello® ALU-01. Tested acc. to EN 45545-2: R1 + R7 + R17, HL 3 fulfilled



## OPTIONS

### (FURTHER OPTIONS ON REQUEST)

NK	no self-adhesive equipment	
SK	with self-adhesive finish	
F700 FR HO/53	F700 FR HO is equipped with a dark grey polyester non-woven as top layer for a mechanically robust and visually attractive surface	<b>FLAMMABILITY</b> <ul style="list-style-type: none"> <li>▶ FMVSS 302, DIN 75 200: fulfilled</li> <li>▶ ISO 3795: burning rate &lt; 100 mm/min</li> </ul>
F700 FR HO HT	F700 FR HO is equipped with a top layer made from a black polyester film as an oil-, water and fuel-repellent surface finish.	<b>FLAMMABILITY</b> <ul style="list-style-type: none"> <li>▶ FMVSS 302, DIN 75 200: fulfilled</li> <li>▶ ISO 3795: burning rate &lt; 100 mm/min</li> <li>▶ ECE R-118: annexes 6, 7 + 8 fulfilled (SK, 13 mm)</li> </ul>
F700 FR HO ALG-01 HLF 5 SK	Rear face additionally equipped with a fire protection barrier (Cello® HLF 5 SK) made from thermoplastic polyolefins. Suitable for applications in motorboats/yachts. Thickness: 23, 33, 43, 53 mm.	<b>FLAMMABILITY</b> <ul style="list-style-type: none"> <li>▶ FMVSS 302, DIN 75 200: fulfilled</li> <li>▶ ISO 3795: burning rate &lt; 100 mm/min</li> <li>▶ EN 45545-2: R1 + R7 + R17, HL 3 fulfilled (≥ 13 mm)</li> <li>▶ DIN EN ISO 9094: oxygen index (OI) of at least 21% fulfilled (≥ 10 mm)</li> </ul>



F700 FR HO/53



F700 FR HO HT



F700 FR HO ALG-01 HLF 5 SK

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