



BRONZE

Technical Data Sheet

## ThermaSmart<sup>®</sup> PRO Tube

Thermal Insulation by Thermaflex<sup>®</sup>

**ThermaSmart<sup>®</sup> PRO, a fully recyclable thermal tube insulation product made of direct extruded, closed-cell high quality polyolefin foam.**

**Benefit from:**

- Condensation free system for life-time installed by qualified insulator
- Consistent performance - Damage free, robust insulation material
- Safety - Excellent fire and smoke behavior
- Fast fabrication of fitting insulation – Welding technique up to ID42mm
- Gain point for Green building program - Cradle to Cradle Certified<sup>™</sup> Bronze, EPD, RoHS



## Applications

- All HVAC-R systems: Heating, Cooling, Air conditioning and Refrigeration

## Technical Properties

Properties	Units SI	Values	Testing method
<b>Physical properties</b>			
Dimensional tolerances	-	Coherent	EN 14313
Density	kg/m <sup>3</sup>	18 - 40	-
Structure	-	Fine, closed-cells	-
Color	-	Anthracite	-
<b>Thermal properties</b>			
Service temperature range	°C	-80 to +95	-
Maximum service temperature	°C	+95	EN 14707
Thermal conductivity (λ)	W/m·K	0.035 @ 10°C 0.038 @ 40°C	EN ISO 8497
<b>Fire properties</b>			
SBI classification	-	BL, s1, d0	EN 13501-1
British standard	-	Class 1	BS 476 Part 7
British standard	-	Class 0	BS 476 Part 6
Flammability standard	-	HF-1	UL94
<b>Water resistance properties</b>			
Water vapor diffusion	μ	≥ 10,000	EN 13469
Water absorption	kg/m <sup>2</sup>	0.01	EN 13472

## Availability

- Standard product length is 2m (198-204cm) in carton boxes (205x60x40cm)
- In coils up to Ø28 mm and wall thickness 6-13 mm
- Product versions: non-slit, pre-slit, Self-Adhesive
- Pre-fabricated parts

Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]	Carrier Pipe Ø max. [mm]	Tube Insulation Ø [mm]
6	7.0-8.5	40	42.0-43.5
8	9.0-10.5	42	44.0-46.0
10	11.0-12.5	48	50.0-52.0
12	13.0-14.5	50	52.0-54.0
15	16.0-17.5	54	56.0-58.0
18	19.0-20.5	60	62.0-64.0
20	21.0-22.5	63	65.0-67.5
22	23.0-24.5	76	77.0-79.5
25	26.0-27.5	89	91.5-94.5
28	29.0-30.5	102	105.0-108.0
32	33.0-35.0	108	111.5-114.0
35	36.0-38.0	114	117.0-120.0

Insulation Wall thickness [mm]
6 (5-6.5)
9 (8-10)
13 (12-14)
19 (18-20)
25 (24-26)
30 (29-31)