

ULTRASOLAR 2

Technical data sheet

MATERIAL

Composite system in rolls consisting of 2 twinned tubes in corrugated stainless steel AISI 316 L, IT-FLEX AT R insulation covering and a sensor cable.

PRODUCT SPECIFICATION

Steel: In accordance with the European Standard EN EN 10088-2/DIN 1744:1.4404. Insulation: In accordance with the European Standard EN 14304.

PRODUCT RANGE

Tubes in rolls in lengths of 10-15-20-25 m, bobbins in lengths of 50-100-150 m in DN 16-20-25. Insulation thickness of 10 mm.

PRODUCT APPLICATION

The production of thermal fluid distribution systems in solar thermal applications or applications carrying high temperature fluids
(+150 °C in continuous operation; +180 °C in intermittent operation).
It is also suitable for external applications.

TECHNICAL SPECIFICATIONS OF THE CORRUGATED STAINLESS STEEL AISI 316 L TUBE

TYPE DN	THICKNESS (mm)	EXTERNAL DIAMETER (mm)	TOLERANCE (mm)
16	0,18	21,6	± 0,25
20	0,18	26,6	± 0,25
25	0,20	32,2	± 0,30

TECHNICAL SPECIFICATIONS OF THE INSULATION

MAIN PROPERTIES	REFERENCE VALUES	TEST STANDARDS
SERVICE TEMPERATURES OF TRANSPORTED FLUIDS	- 50 °C + 150 °C	EN 14707
THERMAL CONDUCTIVITY λ AT A MEAN TEMPERATURE OF + 40 °C	$\leq 0,042$ W/m·K	EN ISO 8497
FIRE PERFORMANCE EUROCLASS	E _L	EN 13501-1
WATER ABSORPTION	< 0.1 kg/m ²	EN 13472
UV RESISTANCE	EXCELLENT	UNI ISO 4892-2
CORROSION RISK	MEETS TEST REQUIREMENTS	EN 13468

TECHNICAL SPECIFICATIONS OF THE EXTERNAL INSULATION

TYPE	FILM IN LDPE	
COLOUR	BRICK	
THICKNESS	≈ 350 μ m	
ELONGATION AT BREAK (%)	200 MD/550 TD	ISO 527-3

TECHNICAL SPECIFICATIONS OF SENSOR CABLE

TYPE	Silicone rubber (double thread)	
SERVICE TEMPERATURES	from - 60 °C to +180 °C	
SECTION	1 mm ²	EN ISO 12086
NOMINAL TENSION	Uo/U 300/500 V	

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For specific requirements, please contact our Technical Department.

All standards cited in this document are intended to be updated to the latest released version. The latest released documentation and specific certifications are available upon. Registration on our website at: www.evocellmobius.it

It is the responsibility of the end user to verify the suitability of the product for the intended use, in relation to the specific conditions of use and installation. EVOCELL&MOBIUS reserves the right to modify the above data without prior notice. Please refer to the website www.evocellmobius.it for the latest version.