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Sample ID: ARMACELL-ONEFLEX
Boru / Tube
Levha / Sheet

TEST	METHOD	Specimen	RESULT		
* Thermal insulating products for building equipment and industrial installations — Determination of water vapour transmission properties of preformed pipe insulation	EN 13469 WVT	TUBE	MU	PASS	SMOKE VALUE
			7000		S2
	EN 13469 WVT	SHEET	MU	PASS	SMOKE VALUE
			7000		S3



Seal



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Environment

The requirements and standards apply to equipment intended for use in

X	Residential (domestic) environment
X	Commercial and light-industrial environment
X	Industrial environment
X	Medical environment

**EN 13469 Thermal Insulating Products For Building Equipment And Industrial Installations —
Determination Of Water Vapour Transmission Properties Of Preformed Pipe Insulation****Scope:**

This European Standard specifies the equipment and procedure for determining the water vapor transmission properties in the steady state under specified test conditions for test specimens of preformed pipe insulation. It is applicable to thermal insulating products.

General:

A desiccant filled "dry-cup" made from a preformed pipe insulation test specimen is placed in a test atmosphere whose temperature and humidity are controlled. Because of the difference between the partial water vapour pressures in the test assembly and in the test atmosphere, water vapour flows through the test specimen. Periodic weighings of the assembly are made to determine the rate of water vapour transmission when the steady state is reached

Conditioning:

The test specimens shall be stored for at least 6 h at (23 ± 5) °C. In case of dispute, they shall be stored at (23 ± 2) °C and (50 ± 5) % relative humidity for the time stated in the relevant product standard.

Specimen	Condition	Temperature °C	Relative Humidity (%)	
			Dry State	Humidity State
Tube	23-0/50	23 ± 2	0	50 ± 5
Sheet	23-0/50	23 ± 2	0	50 ± 5

Procedure:

- Bond the test specimen to the aluminium foil, at one end, to achieve a water vapour tight joint.
- Place sufficient desiccant within the test specimen to maintain 'zero' percent relative humidity throughout the test.
- The quantity of desiccant shall not be greater than 2/3 of the enclosed volume
- Prepare also one test specimen, "dummy", identical to the others but not filled with desiccant
- Close the open end of the test specimen as in the first paragraph.
- Bubbles under the foil should be avoided, and the bond between the foil and the test specimen should be such that any attempt to separate the foil from the test specimen breaks the test specimen rather than the bond.
- In case of products with a low water vapour transmission rate, the borderline between the foil and the test specimen may be sealed in addition with a sealant in such a way that the reduction in free surface is not significant.
- Weigh the test specimens at regular intervals. The weighing shall be carried out under the same conditions as exist in the test chamber.

Specimen	Specimen Sizes
Tube	10x22 mm

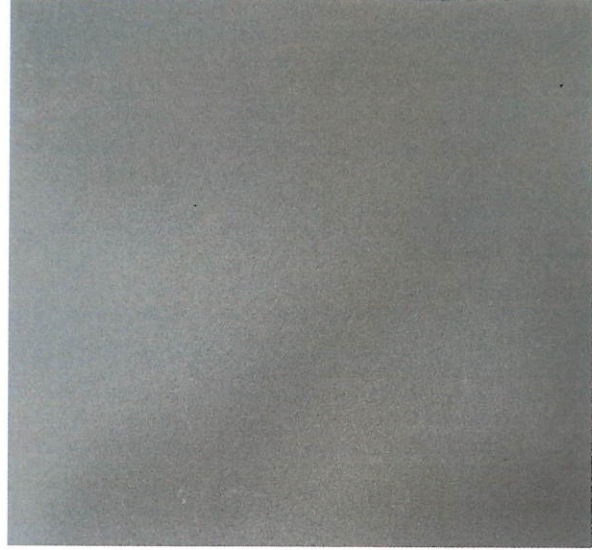
Specimen	Specimen Sizes
Sheet	50x50x13 mm

Specimen	Sample Size Used In The Test		Amount Of Dryer (g)	The weight of the test setup before starting the process (g)	The weight of the test setup after the start of the process (g)
	(mm)	(g)			
Tube	10	45,37	34,21	45,37	46,20
Sheet	10x10	--	--	--	--
Tube without dryer	10	11,16	0	11,16	11,86
Sheet without dryer	10x10	3,95	--	3,95	4,87

Specimen	MU	m1	m2	m3	m4	m5
Tube	7105	45,37	45,42	45,86	46,13	46,20
Sheet	7225	--	--	--	--	--
Tube without dryer	7035	11,16	11,34	11,74	11,86	11,86
Sheet without dryer	7150	3,95	4,18	4,32	4,46	4,87

Observation: During the test process, regular weighings were made at certain periods and are given in the table. No inconvenience has been observed in the water vapor transmission feature.

IMAGE



*****END OF REPORT*****