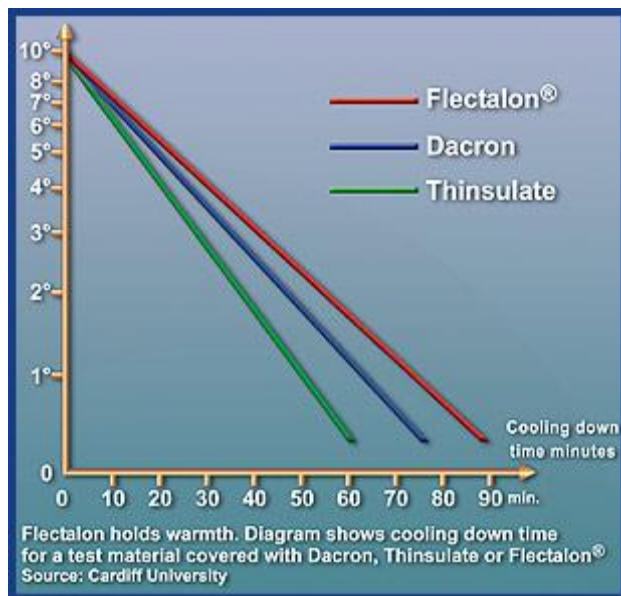


HOW WARM AND EFFECTIVE IS FLECTALON?

Cardiff University compared three of the most effective flexible insulations; Dacron, Thinsulate and Flectalon. The table below shows Flectalon being the most effective.



Flectalon holds the temperature the longest making it the most effective insulation. This is why Tube-Cosy is made of Flectalon, it's the best and most effective.

WHAT IS FLECTALON?

Flectalon is a unique material originally used to line incubators for prematurely born infants.

Flectalon combines three principles;

- It isolates, cold does not enter.
- It reflects, most of the body heat (the heat that is inside the insulation)
- It ventilates, does not get to hot.

Flectalon is made of aluminium-coated polypropylene foil, cut into very thin strips, forming light and porous wadding. One side of each strip is coated with a 300 Angstrom (millionth of a millimetre) layer of aluminium. (0.5 gm/per m²)

Tog Values – Independent test reports to BS.4745 confirm Flectalon to be superior in all respects, when compared to Polyester Hollow Fibre (PET) and Polyester/Polyolefin Micro Fibre (PET/PO).

See table:

Fibre Type	Loft mm	Tog cm ² /IOW	Density kg/m ³	Warmth / Weight incl covers	Resistivity Tog/cm
FLECTALON	22	7.7	10.9	213	3.5
Hollow Fibre Polyester	33	7.1	7.6	200	2.2
Micro Fibre Polyolefin	13	39	19.4	108	3.0

Physiological Measurements – Controlled critical temperature tests carried out by the Welsh National School of Medicine have, for the first time, given a physiological measurement of the efficiency of insulating materials. These tests were carried out using a variety of swaddling materials and have confirmed Flectalon’s superiority.

Extract from the paper “New insulating material in maintenance of body temperature” published in Archives of Disease in Childhood by the British Medical Association:

Our results indicate that a baby swaddled in 70 g/m² of FLECTAON has a lower critical temperature (16,2? C) than in the bag made with either HOLLOFIL 160 g/m² (19,5? C) or THINSULATE 180 g/m² (19,5? C).

The more effective the insulating material the lower the critical temperature.