

 aortha[®]

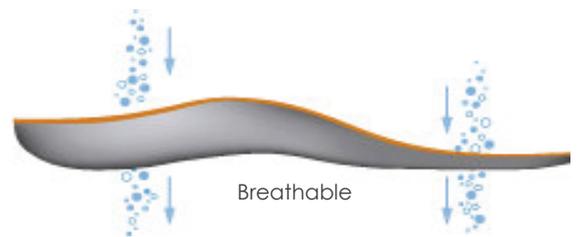
THERMOFELT

Malleable, breathable & versatile

The best kind of insole is the one you cannot feel yet offers your foot the necessary support. Aortha Thermofelt has special insulating and moisture diverting properties, large air volume and an open fibre structure that will leave feet feeling soft and warm.

Aortha Thermofelt consists of two layers of fibre needled together. The bottom layer is vacuum and heat mouldable to give therapeutic support relief while the top layer is shock absorbant with moisture wicking and warming properties making it an ideal choice for diabetic patients.

Processing of this versatile material is simple and requires no specialist tools or equipment....simply cut, heat and vacuum mould.



- Warm and airy
- Breathable
- Moisture wicking
- Foot stabiliser
- Shock absorbing
- Washable and hygienic
- Can be used for insoles, jackets, AFO's & splints

Thermofelt Sheets

Code	Sheet Size		Thickness	
LA7862	1300 x 1000mm	51" x 39"	12mm	1/2"

Thermofelt Castor units - Duck Shape

Code	Castor Size	Thickness	
LA7871	Small	12mm	1/2"
LA7872	Medium	12mm	1/2"
LA7873	Large	12mm	1/2"
LA7874	X-Large	12mm	1/2"
LA7875	XX-Large	12mm	1/2"

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Production techniques



1. Place the Aortha Thermofelt in a pre-heated oven between 145°C & 210°C for 3-7 mins (please refer to temperature guide), with the dark side facing downwards.



2. Remove the Thermofelt from the oven and place into a vacuum press over the plaster cast, with the dark side facing downwards.



3. When the Thermofelt is in place, close the top of the vacuum and vacuum the Thermofelt over the plaster cast, leaving it for approx. 5 minutes to cool.



4. When the Thermofelt has cooled, remove from the vacuum and the plaster cast. The Thermofelt is able to be trimmed straight away.



5. Trim the Thermofelt insole using a bandsaw or Stanley knife until you have removed all the excess material down to the insole edge required.



6. Using a two speed scouring machine, set the machine on low speed to reduce heat caused by friction, resulting in the Thermofelt melting.



7. Scour the Thermofelt to the required shape by using a coarse scourer wheel, to remove the material with minimum friction. Best results can be achieved using a silicon carbide 24 grit paper.



8. When finishing the Thermofelt use a slow speed machine and press gently to avoid melting, after shaping use a wire or synthetic wheel to hone the fibres back to their original appearance.

The table below shows the connection between temperature, time, hardness and thickness of *Aortha Thermofelt* when heated in a calibrated oven. *Aortha Thermofelt* can be ready for cutting after approx. 5 minutes cooling in the vacuum press.

Temperature	Time	Material hardness after adaption	Material thickness after adaption
145°C	Approx. 5 min.	45 Shore	9.5mm
170°C	Approx. 6 min.	55 Shore	6.5mm
185°C	Approx. 7 min.	65 Shore	6mm

Aortha Thermofelt insoles can be washed at a temperature of 40°C in a domestic washing machine, with no change to quality or shape.