

# Combitherm

## Blade covers

°COMBITHERM

### Optimises the curing of wind turbine blades and ensures quality and strength

Wind turbine blades must be able to withstand the effects of vibrations, wind and weather, and an even curing is therefore essential when it comes to the wind turbine blades developing the right quality and strength.

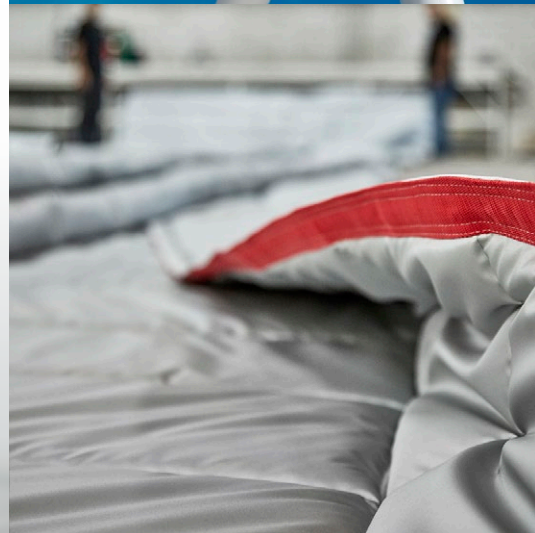
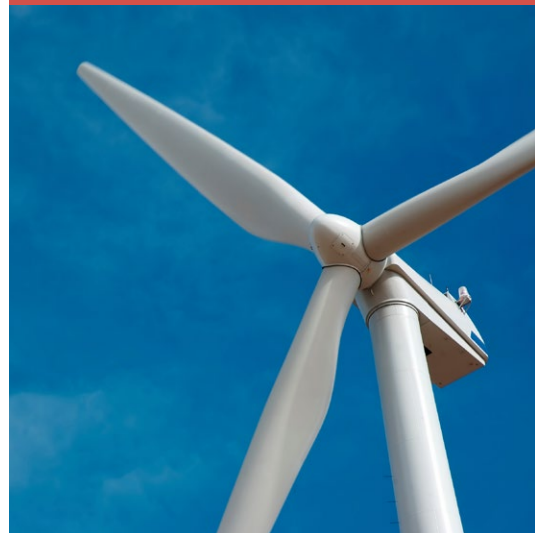
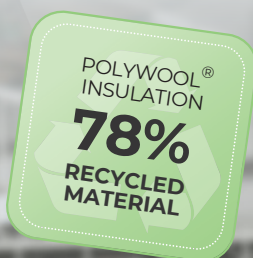
Combitherm thermal blade covers are an effective solution produced according to specific measurements, which means that they fit perfectly over the moulds. This reduces temperature fluctuations and ensure an even and consistent heat distribution over the blade elements.

#### Quality, Inside Out

Combitherm thermal blade covers have been developed with a focus on quality and durability. The thermal solution is based on a multi-layer construction with efficient Polywool insulation with spiral polyester hollow fibres as well as an outer foil of coated textiles, which can withstand the high temperatures at which the blade elements must harden.

#### Noticeable advantages

- Insulation of 55% or 78% rPET fibres depending on the choice of material
- Ensure strength and uniform quality
- Optimised curing even with significant temperature fluctuations
- High insulation capacity and less energy consumption
- Reduce energy consumption from external heat sources
- Optimised material consumption
- Efficient use of the moulds



## Customised thermal solutions

Individual design and high flexibility ensure easy handling and tight enclosing of the mould, in order to achieve the optimal quality and strength of the wind turbine blades.

Combitherm thermal blade covers are tailored to individual needs and delivered in all sizes and shapes (possibly divided into sections) adapted to individual production conditions.

## Technical specifications

### Three-layer construction of:

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Foil: TEX-PUR

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Insulation: Polywool PET (polyester fibre) with up to 78% rPET, 360 or 400 g/m<sup>2</sup>

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Colour: Silver grey with silver grey edging

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Temperature: From -30 to +220°C

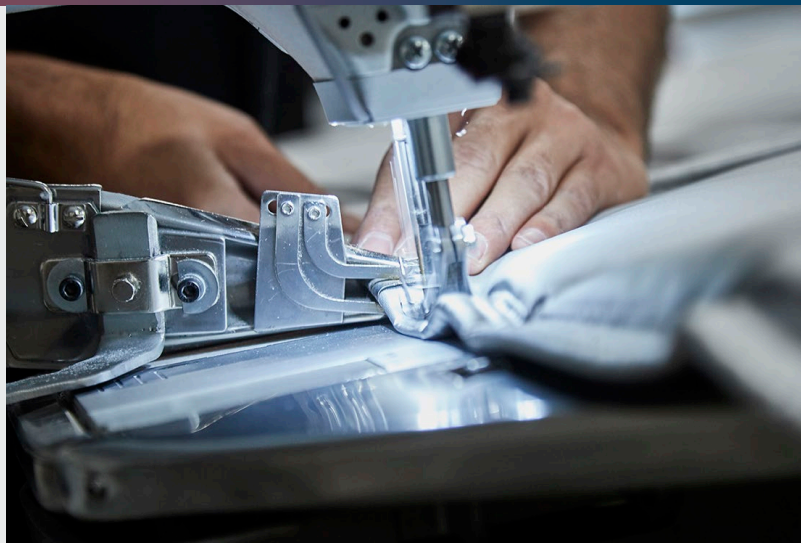
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## Caring about the environment

An uncompromising choice of materials and a proven design mean that Combitherm thermal blade covers have a long lifespan and can be reused time and time again.

Polywool insulation consisting of 78% recycled fibres helps to increase sustainability and overall the effective insulating ability means that the thermal blade covers ensures that the heat is evenly distributed over the entire blade element during curing.



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To ensure an effective and even curing of wind turbine blades, it is very important to control the temperature throughout the casting process, partly while we are making the mould but also later when it comes to casting the blades.

*Søren Pedersen  
Dencam Composite A/S*

