

**DANUFIL® IR – UP TO 95 % LIGHT REFLECTANCE**
**DANUFIL® IR – Engineered for optimized reflection of infrared thermal radiation**

DANUFIL® IR is a cellulosic fibre containing an IR reflecting particle finely distributed throughout the fibre. The typical properties of a viscose fibre such as wearer comfort, softness and skin friendliness have been preserved. The reflection effect is permanent and cannot be washed out.

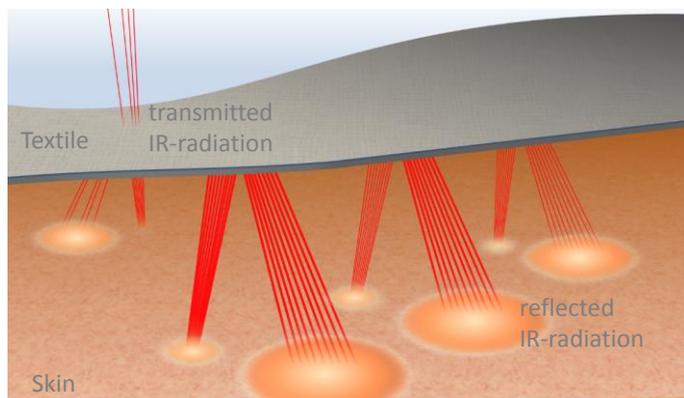
**Applications:**

The fibre delivers a high reflectance of direct sunlight, because of the incorporated IR active particles. Therefore the fibre is capable of providing a cooling effect, for example by protecting the human body from outside heat radiation.

At the same time, the fibre may also be used in warming applications, where the thermal radiation emitted from the body is reflected by these particles back to the body, keeping the person warm.

Therefore, DANUFIL® IR is ideal for functional textiles:

- thermal sleep- and underwear
- sportswear
- socks, shirts, etc.


**Processing:**

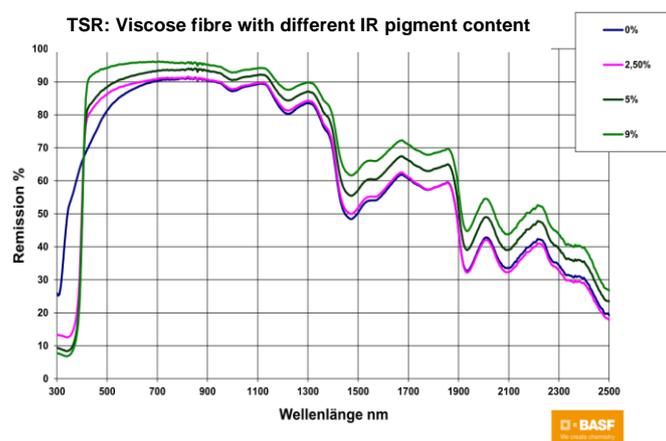
DANUFIL® IR can be processed on textile technologies as well as on nonwoven technologies.

DANUFIL® IR can be spun to yarns as fine as Nm 50.

It can be used in 100% form or in blends with most other natural or synthetic fibres.

**IR-activity by Total Solar Reflectance (TSR):**

Visible light is reflected by 90 to 95 %, while in the near infrared range, a reflectance of up to 90 % is reached, depending on the wavelength spectrum.


**Availability**

Decitex	Cutting length (mm)
1,7	40

**Property Profile**

Fibre property	Unit	DANUFIL® IR
Tenacity	cN/tex	18 - 20
Elongation At Break	%	20 - 22
Fibre Diameter	µm	12

For more information about our products please email to: [sales@kelheim-fibres.com](mailto:sales@kelheim-fibres.com) or call Germany +49 9441 99-519. Please visit also our website: [www.kelheim-fibres.com](http://www.kelheim-fibres.com)

07/2018