

## Leonardo – transparent flat viscose fibre

**Leonardo** is an extremely flat viscose fibre with a thickness to width ratio of 1:40. At the same time the fibre exhibits a very even fibre surface with completely parallel sides and a highly regular cross section.

Leonardo can be produced up to three times thinner than existing flat viscose fibres of the same fibre count. This, together with the even fibre surface and the resulting modified light refraction properties delivers a uniquely transparent fibre from which a range of different end applications such as security and filter papers can benefit.

### Applications:

Leonardo can be used in blends with pulp for:

- Improvement of paper quality
- Special papers, such as filter papers, document papers, currency papers
- Nonwovens and special textile applications

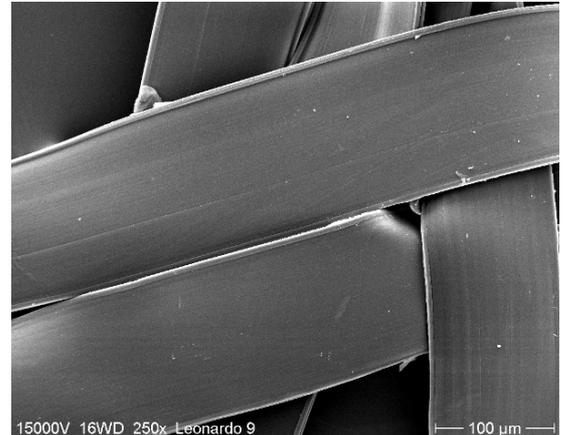
Leonardo can be used in 100 % without any additives or in blends with other natural or synthetic fibres for:

- Highly transparent papers
- Filter papers

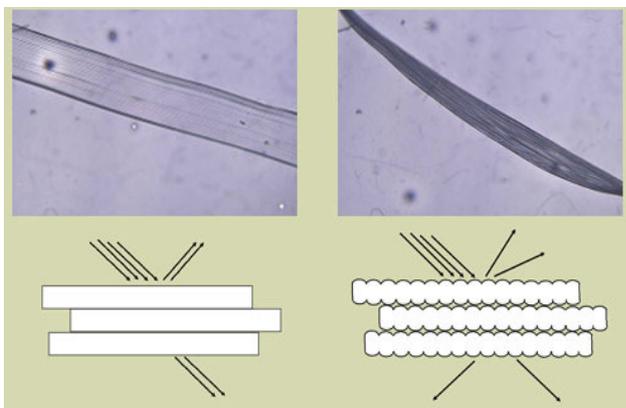
### Processing:

Leonardo can be processed on paper, nonwovens and wetlaid technologies.

### SEM image of Leonardo



### Cross section of Leonardo



**Transparency of Leonardo (left) in comparison to regular rayon flat fibre (right)**

### Availability:

Decitex	Cut length (mm)	
9,0	3 - 12	Wet short cut

Other dtex / staple lengths are available on request.

### Properties / Availability:

Fibre property		
Tenacity	cN / tex	20
Elongation at break	%	18
Lustre		bright / transparent

For more information about our products please email to: [functionalfibres@kelheim-fibres.com](mailto:functionalfibres@kelheim-fibres.com) or call Germany +49-9441-99561. Please visit also our website [www.kelheim-fibres.com](http://www.kelheim-fibres.com).

08/2014

The above data are for the purpose of informing about our products and their applications and are based on current knowledge. They have hence not the meaning to guarantee certain properties or suitability for special applications. Danufil Trademarks and Patents are property of KELHEIM FIBRES GmbH Germany.