

DANUFIL[®] Deep Dye

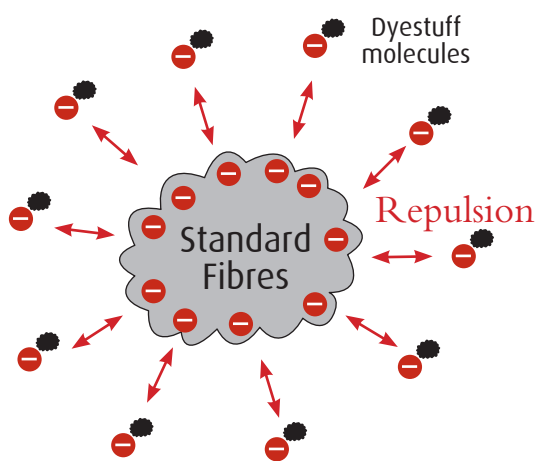
A cationic viscose fibre for flexible and sustainable melange solutions



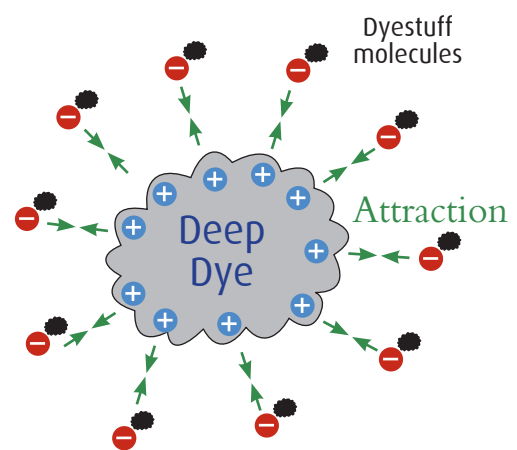
Kelheim
Fibres

DANUFIL[®] Deep Dye – The dyestuff magnet

DANUFIL[®] Deep Dye is a cationically activated viscose fibre. The fibre contains a positive charge which increases the affinity towards reactive dyestuffs by more than six times.

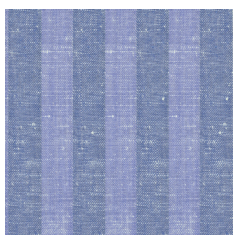


Salt required for dyeing.

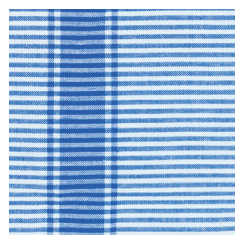


No salt required for dyeing.

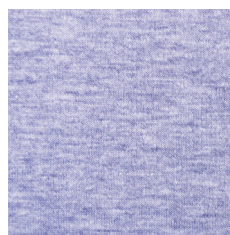
The improved dyeability of DANUFIL[®] Deep Dye allows various creative applications:



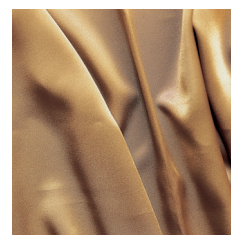
Colour in colour effects by regular dyeing conditions.



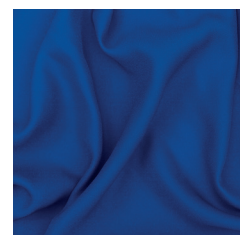
Selective dyeing by adjusted dyeing conditions.



Flexible melange effects.



Deeper shades with natural dyestuffs.



Deeper shades with reduced resources.

Are you ready for fast fashion?

Highest flexibility for melange production

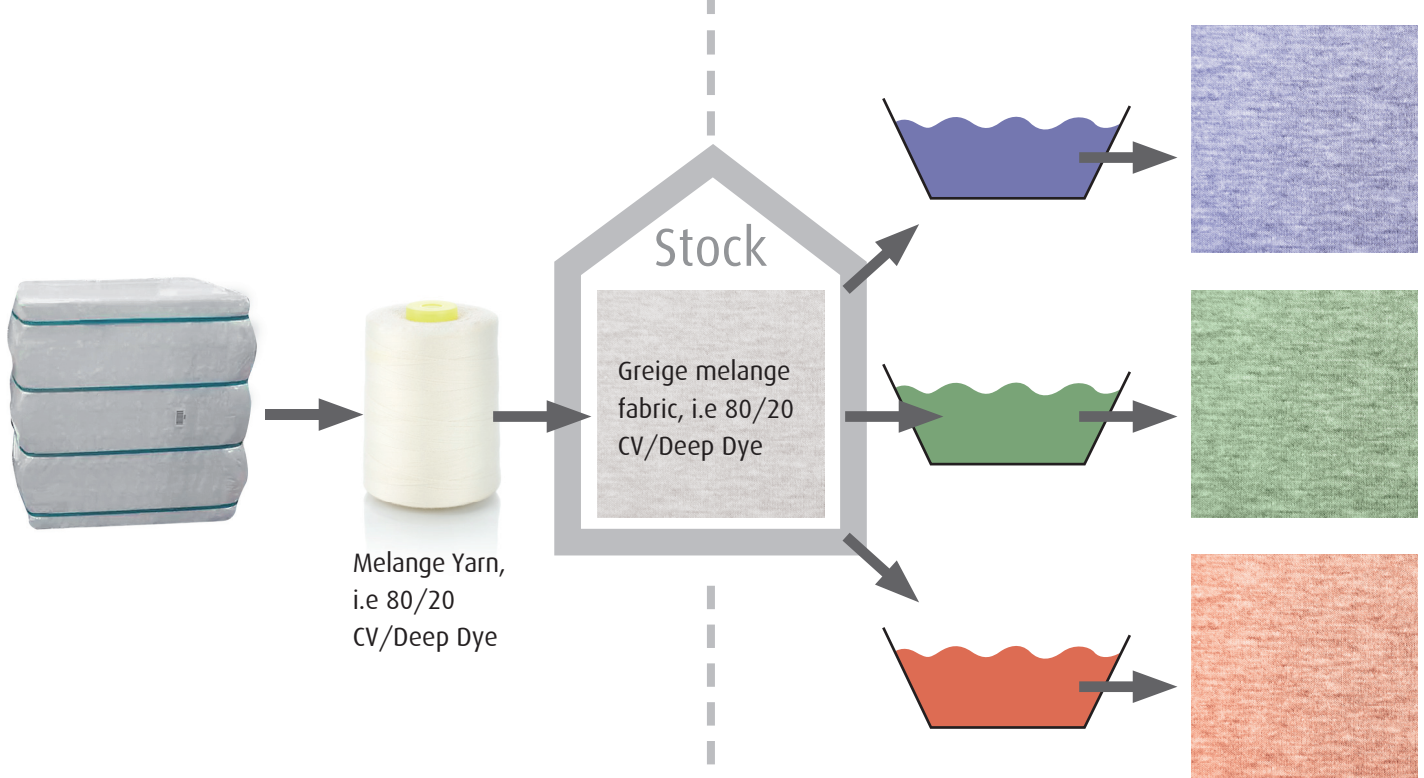
Fast fashion has been changing the textile industry and the supply chain is pushing to reduce the lead time further. In the conventional way, producing a melange fabric in a new colour takes several weeks since it is necessary to start from the beginning and dye the fibres and spin the yarn again.

What if the lead time could be reduced to several days only? With DANUFIL® Deep Dye this wish has become reality. To realize the full potential, only two steps are necessary.



1. The undyed melange fabric with DANUFIL® Deep Dye is produced for stock.

2. The stock melange fabric just has to be dyed in the desired colour and the new melange is ready!



Your advantages at a glance

For the best melange results, Kelheim Fibres recommends using DyStar dyestuff for DANUFIL® Deep Dye. Through a special cooperation, qualified technicians from DyStar will give support for adjusting your dyeing process for DANUFIL® Deep Dye.



1. **Ultimate flexibility:**

- Minimized Lead Time
- Reduced Warehousing
- Flexible MOQs
- Easier Production
- Production on Demand

2. **Creative effects** in knitted and woven fabrics with the right use of the different dyestuff affinity.

3. **A more effective dyeing process** with savings of:

- Dyestuff
- Chemicals
- Auxiliaries
- Energy
- Time

4. **More sustainable products** with an improved eco balance compared to conventional dyeing.

More sustainable dyeing – while saving costs

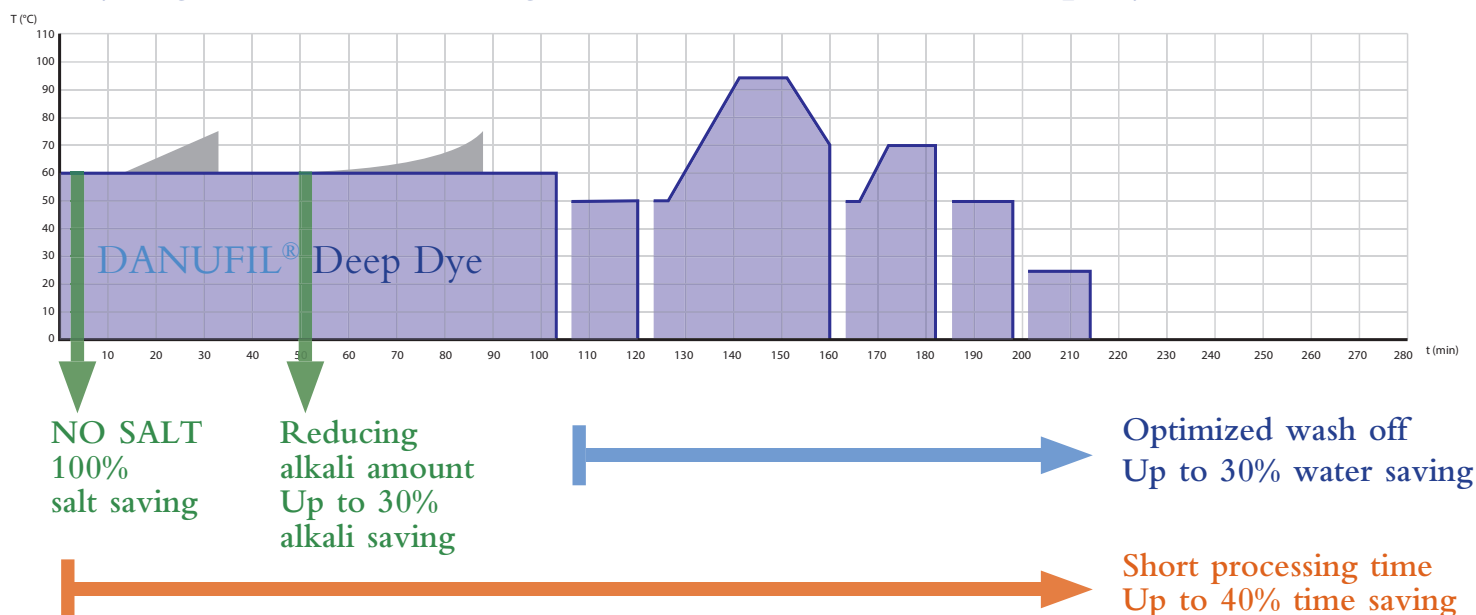
The highly increased affinity of DANUFIL® Deep Dye towards dyestuff enables process materials and energy consumption to be reduced. Not only is it possible to save costs through this, but also has the final product an improved eco balance. A crucial advantage in a time where sustainability has become a purchase criteria for brands and consumers.



Process savings at a glance¹:

- No salt is required for dyeing
- 40% less dyestuff consumption
- 40% less auxiliary consumption
- 30% less alkali consumption
- 30% less water consumption
- 30% less steam consumption
- 15% less power consumption
- Up to 40% faster dyeing cycle

Dyeing curve for a melange fabric with DANUFIL® Deep Dye



¹Example for melange fabric with 80% Viscose / 20% DANUFIL® Deep Dye. Average values of several external trials.



DANUFIL® Deep Dye is certified according to OEKO-TEX® 100 Class 1, available with FSC® or PEFC™ certification, fully biodegradable and 100% manufactured in Germany.



The mark of responsible forestry



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