

OLISTOP OGD

Crystallisation prevention for oligomers



Storage

With appropriate storage in closed original containers and below 40 °C the shelf life of this product is at least 6 months. Temperatures above 40 °C can cause the product to change. After cooling and stirring the product becomes usable again without restrictions. Protect from direct sunlight. Prolonged exposure to temperatures below 0 °C can cause the product to solidify. After warming and careful stirring the product becomes usable again without restrictions.

For further notes on safe handling, see the safety data sheet!

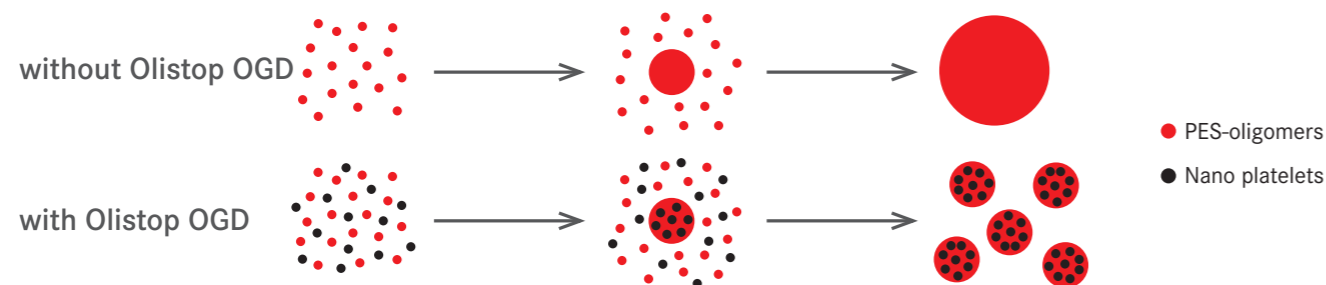
The recommendations and information in word and text on our products here are based on comprehensive research work and correspond to our current experience from textile refinement. The information is deemed non-committal – also regarding property rights of third parties and foreign legal provisions - and shall not release the user from testing products and procedures for suitability for his use directly. In particular, we assume no liability for any purposes not expressly named by us in writing. We reserve technical changes in the scope of new product developments. We refer to our general sales and delivery conditions, item 7, in case of damage.

Properties and Advantages of OLISTOP OGD

- ✓ Based on nanotechnology
- ✓ Prevents crystallisation of oligomers
- ✓ Easily dispersible in cold water
- ✓ Does not influence colour depth or nuance
- ✓ No influence on fastnesses
- ✓ Formulation does not need to be adjusted
- ✓ Prevents agglomeration of oligomers on fibres and walls of the aggregates
- ✓ Prevents greying on the goods
- ✓ Improves the running properties of yarns
- ✓ Prevents rough fibre surfaces

Effect

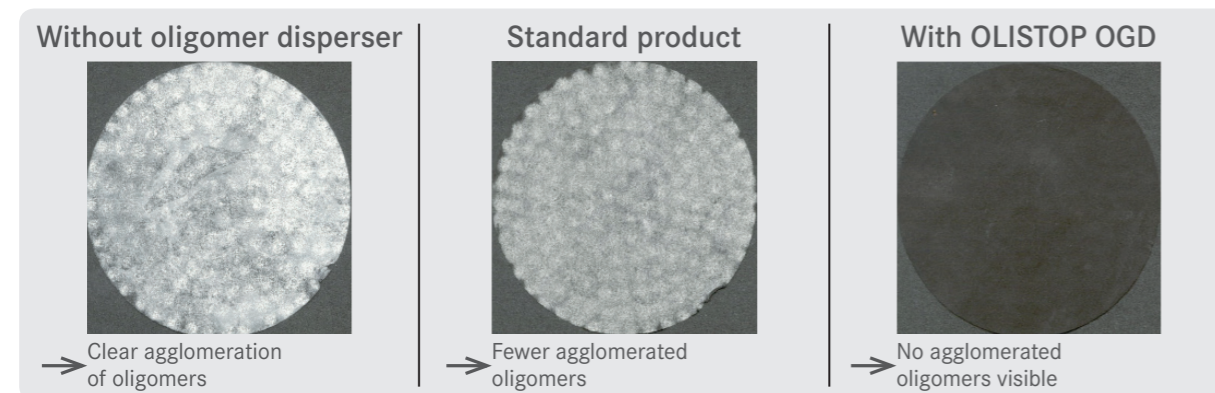
- OLISTOP OGD is based on modified mineral nano platelets with diameters of approx. 10 – 20 nm.
- Oligomers have the characteristic of migrating from the polyester fibre at high temperatures and forming large agglomerates.
- OLISTOP OGD prevents agglomeration of oligomers and prevents the growth of oligomer agglomerates and crystals by binding to the oligomers before agglomeration:



The oligomers are dispersed so finely by this that they will not impair the downstream processes.

Proof of efficiency of OLISTOP OGD

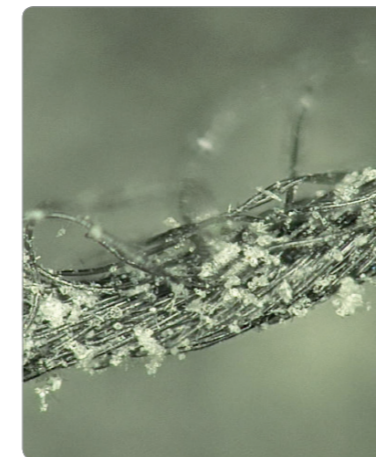
To determine the efficiency of OLISTOP OGD, a batch inoculated with oligomers is treated at 130 °C for 60 min after addition of the oligomer disperser. This is followed by warm filtration through a black filter paper with a water jet pump.



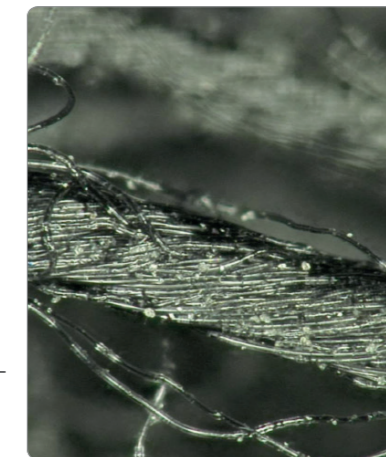
The whiter the filter, the coarser the oligomers that have deposited and the worse the dispersion behaviour.

Microscopic examinations

Practical dyeing under 200-fold magnification with the KEYENCE digital microscope VHX 600:



Dyed without OLISTOP OGD:
Much larger oligomer-agglomerates or crystals



Dyed with 3 g/l OLISTOP OGD:
Much fewer and smaller oligomer crystals

Use of OLISTOP OGD

Dye bath:

OLISTOP OGD is added in particular directly to the dye bath. Usage volumes of 1.0 – 3.0 g/l are recommended in addition to the common chemicals and additive dosages.

Reductive cleaning:

Oligomers leave the fibres in this treatment step as well. Therefore, it is recommended to use OLISTOP OGD in reductive after-cleaning. We recommend using volumes of 1.0 – 2.0 g/l.

NOTE:

Particularly observe in the practice test that the dyeing unit is thoroughly boiled out before the test. The following formulation is recommended for this:

3.0 – 4.0 g/l Tecoclean FTK

8.0 – 15.0 ml/l NaOH 38 °Bé

1.0 – 3.0 g/l Tecoredukt 1000 or SRM 235 %

- clean at 130 °C for 30 – 60 min
- drain hot
- rinse well

→ At strong contamination, it is recommended to perform the unit cleaning process twice.

Result

Use of OLISTOP OGD prevents oligomer agglomeration, so that they will no longer impair dyeing or downstream processes and contaminate the units less – without any influence on shade, proofnesses or brilliance of the colouration.

