

# TECHNICAL INFORMATION

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## NEWOTEC<sup>®</sup> 703

|                                 |  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
|---------------------------------|--|---------------------|---|---------------------|--|--------------|---------|----------------|---------|-----------------------|---------------|----------------|---|
| <b>Product Category:</b>        | Gelling catalyst for PVC formulations  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| <b>Fields of Application:</b>   | All kinds of PVC formulations  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| <b>Product Characteristics:</b> | <ul style="list-style-type: none"><li>➤ accelerates the gelling process of PVC formulations</li><li>➤ low volatile</li><li>➤ free of APEO and phthalates</li><li>➤ silicone-free</li></ul>   |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| <b>Chemical Composition:</b>    | Preparation containing long-chain fatty acid esters, partial esters and fatty acids, polycarbonic acid esters  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| <b>Technical Data:</b>          | <table><tr><td>Appearance (20 °C):</td><td>yellowish, cloudy liquid</td></tr><tr><td>Active content:</td><td>100%</td></tr><tr><td>Flash point:</td><td>&gt;140 °C</td></tr><tr><td>Boiling range:</td><td>&gt;220 °C</td></tr><tr><td>Solidification range:</td><td>approx. -5 °C</td></tr><tr><td>Compatibility:</td><td>compatible with all commonly used PVC formulations within the recommended concentration range</td></tr></table> | Appearance (20 °C): | yellowish, cloudy liquid  | Active content:     | 100%   | Flash point: | >140 °C | Boiling range: | >220 °C | Solidification range: | approx. -5 °C | Compatibility: | compatible with all commonly used PVC formulations within the recommended concentration range |
| Appearance (20 °C):             | yellowish, cloudy liquid   |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| Active content:                 | 100%   |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| Flash point:                    | >140 °C  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| Boiling range:                  | >220 °C  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| Solidification range:           | approx. -5 °C  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| Compatibility:                  | compatible with all commonly used PVC formulations within the recommended concentration range  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| <b>Storage:</b>                 | <table><tr><td>Shelf life:</td><td>in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below</td></tr><tr><td>Storage Conditions:</td><td>Recommended storage temperature:<br/>min +3°C, max +40 °C<br/>Protect from moisture<br/>Frost resistant</td></tr></table>  | Shelf life:         | in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below | Storage Conditions: | Recommended storage temperature:<br>min +3°C, max +40 °C<br>Protect from moisture<br>Frost resistant |              |         |                |         |                       |               |                |   |
| Shelf life:                     | in originally sealed drums, approximately one year from the date of delivery under the conditions recommended below  |                     |   |                     |  |              |         |                |         |                       |               |                |   |
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| <b>Packaging:</b>               | drum / IBC   |                     |   |                     |  |              |         |                |         |                       |               |                |   |
| <b>Use concentration:</b>       | Recommended addition level is 4 to 8 phr.<br><br>We strongly recommend to carry out own lab tests in order to determine the optimum dosage, especially when more than 8 phr are added.   |                     |   |                     |  |              |         |                |         |                       |               |                |   |

# NEWOTEC<sup>®</sup> 703

### **Application:**

Being a gelling catalyst, NEWOTEC<sup>®</sup> 703 reduces the gelling time as well as the gelling temperature of PVC formulations.

PVC formulations containing NEWOTEC<sup>®</sup> 703 can be processed at approximately 10°C lower temperature than usual, or, if the processing temperature is kept constant, the processing speed can be increased. In both cases a higher productivity is the result.

### **How to incorporate NEWOTEC<sup>®</sup> 703 into PVC formulations:**

In plastisols, it can be added at any stage of the mixing process. However, it is recommended to premix it with the liquid components before adding the PVC powder and other solid components.

In dry blends or compounds, it should be premixed with the liquid components before blending them with the PVC powder.

### **Further Information:**

NEWOTEC<sup>®</sup> 703 has an additional dispersing effect on fillers in plastisol formulations which leads to a reduced viscosity of filled plastisols and a more homogeneous distribution of the filler in the final product.

Moreover, NEWOTEC<sup>®</sup> 703 has a strong plasticizing effect and can replace the same amount of standard plasticizer(s).

The data in this technical information are derived from practical experience. They do not guarantee specific product properties or the suitability of the product for particular applications. Lab or pilot tests should be carried out in any case. Due to many different possible process conditions we cannot assume any liability. Any existing industrial patent rights have to be respected. Additional information on product properties pertaining to working safety as well as environmental protection can be found in the material safety data sheet.