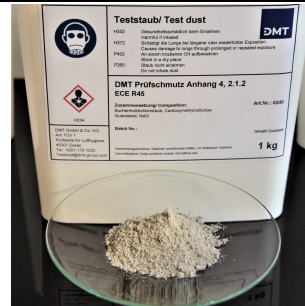


## Product Specification

### DMT Test Dirt ECE R45 Annex 4 2.1.2

DMT GmbH & Co. KG  
 Plant & Product Safety  
 Refrigeration & Air Quality

Am TÜV 1  
 45307 Essen, Germany



- |                                  |   |
|----------------------------------|---|
| <b>1. General description:</b>   | <p>In the description of the test procedure for headlamp washers / headlamp wiper systems in Annex 4, Section 2.1.2 the test dirt is specified which simulates the real dirt.</p> <p>The test dirt is used for headlamps with an outer lens made of polymer material.</p>   |
| <b>2. Composition:</b>           | <p>The composition of the test dirt is as follows:</p> <ul style="list-style-type: none"> <li>9 parts quartz sand between 0 µm and 100 µm</li> <li>5 parts sodium chloride</li> <li>1 part beech wood coal</li> <li>0.2 parts carboxymethylcellulose</li> </ul>   |
| <b>3. Transport and Storage:</b> | <p>Partial segregation may occur during transport and storage. It is therefore recommended to homogenize the DMT Test Dirt ECE R45 Annex 4 2.1.2 before use, which can be achieved by mixing with a laboratory tumbler mixer. Please store in a dry and airtight original container.</p>  |
| <b>4. Quality ensurance:</b>     | <p>In order to achieve reproducible quality, the raw materials and production are strictly controlled. The following quality controls are carried out:</p> <ul style="list-style-type: none"> <li>Monitoring the particle size distribution of raw materials</li> <li>Monitoring the particle size distribution of the end product</li> </ul> |

**5. Specification:****Name :** DMT Test Dirt ECE R45 Annex 4 2.1.2**Standard:** ECE R 45**Title of Standard:** Uniform provisions concerning the approval of headlamp cleaners and of powerdriven vehicles with regard to headlamp cleaners**Composition :** Quartz-coal-mixture**Material:** Particle-Fiber-Mixture**largest particle size ( $\mu\text{m}$ ) :** 100**Bulk density ( $\text{g}/\text{cm}^3$ ):** 0,90**Substance density ( $\text{g}/\text{cm}^3$ ) :** 2,65**Apperance :** solid**Hardness (Mohs):** -**Colour :** grau