

## Product Specification

### DMT Test Dirt ECE R113 1.2.1.1.1

TÜV NORD Systems GmbH &  
Co. KG  
Plant & Product Safety  
Refrigeration & Air Quality

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|----------------------------------|---|
| <b>1. General description:</b>   | <p>In the description of the test procedure for motor vehicle headlamps emitting an asymmetrical passing-beam or a driving-beam 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 glass.</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>1 part beech 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 R113 1.2.1.1.1 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 R113 1.2.1.1.1**Standard:** ECE R 113**Title of Standard:** Uniform provisions concerning the approval of motor vehicle headlamps emitting a symmetrical passing beam or a driving beam or both and equipped with filament, gas-discharge light sources or LED modules**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