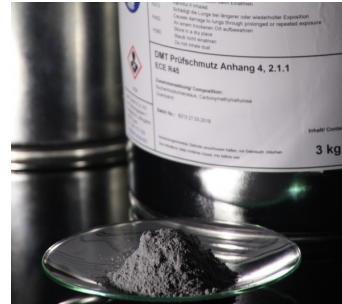


Product Specification

DMT Test Dirt ECE R113 1.2.1.1.1

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

Am TÜV 1
45307 Essen, Germany



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| 1. General description: | <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 polymer material.</p> |
| 2. Composition: | <p>The composition of the test dirt is as follows:</p> <ul style="list-style-type: none"> 9 parts quartz sand between 0 µm and 100 µm 5 parts sodium chloride 1 part beech wood coal 0.2 parts carboxymethylcellulose |
| 3. Transport and Storage: | <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> |
| 4. Quality ensurance: | <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"> Monitoring the particle size distribution of raw materials Monitoring the particle size distribution of the end product |

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 (μm) :** 100**Bulk density (g/cm^3):** 0,90**Substance density (g/cm^3) :** 2,65**Apperance :** solid**Hardness (Mohs):** -**Colour :** grau