

Product Specification

DMT Test Dust A1 ultrafine

DMT GmbH & Co. KG



Plant & Product Safety

Refrigeration & Air Quality

Am TÜV 1

45307 Essen, Germany

- 1. General description:** The Arizona test dust A1 ultrafine forms the finest standard dusts of ISO 12103-1 and is used for various filter and environmental tests.
- The so-called Arizona test dust A1 ultrafine consists of 69 % - 77 % quartz. DMT test dust A1 ultrafine "epsd" corresponds to the specified particle size distribution of the ISO 12103-1 standard, but 98 % of this consists of quartz. The test dust is identified by an additional code "epsd". "epsd" stands for "equivalent particle size distribution".

- 2. Composition:** The specified particle size distribution is shown in the following table:

x (µm)	Q3(x) (%)
0.97	3.0 - 5.0
1.38	7.0 - 10.0
2.75	23.0 - 27.0
5.50	65.0 - 69.0
11.0	95.5 - 97.5
22	100.0

- 3. Transport and Storage:** Partial segregation may occur during transport and storage. It is therefore recommended to homogenize the DMT Test Dust A1 ultrafine before use, which can be achieved by mixing with a laboratory tumbler mixer. Please store in a dry and airtight original container.

4. Quality ensurance: In order to achieve reproducible quality, the raw materials and production are strictly controlled. The following quality controls are carried out:

Monitoring the particle size distribution of raw materials

Monitoring the particle size distribution of the end product

5. Specification:

Name : DMT Test Dust A1 ultrafine

Standard: ISO 12103-1

Title of Standard: Road vehicles -- Test contaminants for filter evaluation -- Part 1: Arizona test dust

Composition : Quarz

Material: Quartz

largest particle size (μm) : 22

Bulk density (g/cm^3): 0,50

Substance density (g/cm^3) : 2,65

Apperance : fest

Hardness (Mohs): 7,0

Colour : weiß
