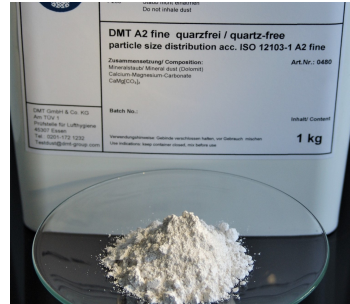


Product Specification

DMT Test Dust A2 fine quartz-free

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

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- 1. General description:** The best-known normative test dust for filter tests and environmental simulations is the Arizona test dust A2 fine, which is described in ISO 12103-1 with regard to its composition and particle size distribution. It is used for tests according to ISO 5011, IEC 62885 (DIN EN 60312), 32-SAMSS-008 (ARAMCO) or the new ISO 16890-3. Since the test dust consists mainly of quartz and has an average value $d_{50.3} < 10 \mu\text{m}$, there is an increased health risk potential due to the alveolar fraction. (Carcinogen, TRGS 906)

For this reason DMT GmbH & Co. KG has developed an alternative test dust, the so-called DMT test dust A2 fine quartz-free, which consists mainly of calcium magnesium carbonate and is not evaluated as a carcinogenic hazardous substance.
- 2. Composition:** The particle size distribution of DMT Test Dust A2 fine quartz-free is between 0 - 120 μm .
- 3. Transport and Storage:** Partial segregation may occur during transport and storage. It is therefore recommended to homogenize the DMT Test Dust A2 fine quartz-free 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 A2 fine quartz-free**Composition :** Calcium magnesium carbonate**Material:** Dolomite**largest particle size (μm) :** 120**Substance density (g/cm^3) :** 2,85**Apperance :** solid**Hardness (Mohs):** 3,5**Colour :** white