

## Product Specification

### DMT Test Dust A3 medium

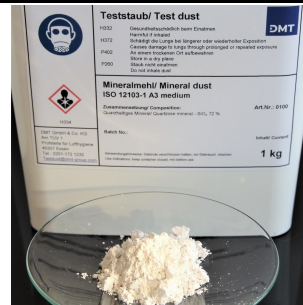
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Plant & Product Safety

Refrigeration & Air Quality

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**1. General description:** Analogous to the Arizona test dust A2 fine, the Arizona test dust A3 medium is also used in various normative tests.

The so-called Arizona test dust A3 medium consists of 69 % - 77 % quartz. DMT test dust A3 medium "epsd" complies with the particle size distribution specified in 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".

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**2. Composition:**

The specified particle size distribution is shown in the following table:

<b>x (µm)</b>	<b>Q3(x) (%)</b>
0.97	2.0 - 2.4
1.38	3.8 - 4.4
2.75	10.3 - 11.1
5.50	22.1 - 23.2
11.0	42.3 - 43.6
22.0	62.5 - 64.5
44.0	82.0 - 83.5
88.0	94.7 - 96.0
124.50	97.2 - 98.6
176.0	99.0 - 100.0
248.90	100.0

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**3. Transport and Storage:**

Partial segregation may occur during transport and storage. It is therefore recommended to homogenize the DMT Test Dust A3 medium before use, which can be achieved by mixing with a laboratory tumbler mixer. Please store in a dry and airtight original container.

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**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

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**5. Specification:**

**Name :** DMT Test Dust A3 medium

**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 ( $\mu\text{m}$ ) :** 250

**Bulk density ( $\text{g}/\text{cm}^3$ ):** 1,00

**Substance density ( $\text{g}/\text{cm}^3$ ) :** 2,65

**Apperance :** solid

**Hardness (Mohs):** 7,0

**Colour :** white

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