

## Product Specification

### DMT Test Dust A2 fine

DMT GmbH & Co. KG  
Plant & Product Safety  
Refrigeration & Air  
Quality

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45307 Essen, Germany



**1. General description:**

The Arizona test dust A2 fine is used in various standard tests in the field of filtration and environmental simulation.

The so-called Arizona test dust A2 fine consists of 69 % - 77 % quartz. DMT test dust A2 fine "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".

Below you will find an overview of standards in which the Arizona test dust A2 fine is used:

DIN EN 60312: Dry vacuum cleaners for domestic use

IEC 60312 (2010): Dry vacuum cleaners for domestic use

IEC 62885: Devices for surface cleaning

ISO / TS 11155-1: Road vehicles - Air filters for passenger compartments - Part 1: Test for particle filtration

ISO / TS 19713-1: Road vehicles - Inlet air cleaning equipment for internal combustion engines and compressors - Part 1: Fractional efficiency testing with fine particles (0.3 µm to 5 µm optical diameter)

ISO 16889: Fluid power - Filters - Multiple pass test method for determining the filter performance of a filter element

ISO 16890-3: Air filters for general ventilation and air conditioning - Part 3: Determination of gravimetric efficiency and flow resistance in comparison to the absorbed mass of test dust

ISO 2941: Fluid power - Hydraulic filter elements - Fracture and burst resistance test

ISO 4548: Test methods for main flow lubricating oil filters for internal combustion engines

ISO 5011: Intake air purification equipment for internal combustion engines and compressors - Power measurement

DMT GmbH & Co KG carries out various filter technology tests and environmental simulations. For more information, visit

<https://plant-product-safety.dmt-group.com/en/product-testing/air-quality/>

**2. Composition:**

**3. Transport and  
Storage:**

**4. Quality  
ensurance:**

**5. Specification:**

- Name :** DMT Test Dust A2 fein
- Synonyme :** AC fine, fine test dust
- 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 ( $\mu\text{m}$ ) :** 120
- Bulk density ( $\text{g}/\text{cm}^3$ ):** 0,90
- Substance density ( $\text{g}/\text{cm}^3$ ) :** 2,65
- Apperance :** solid
- Hardness (Mohs):** 7,0
- Colour :** white