

Product Specification

PTI Arizona Test Dust A2 fine

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

Am TÜV 1
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.

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:

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

x (µm)	Q3(x) (%)
0.97	4.5 - 5.5
1.38	8.0 - 9.5
2.75	21.3 - 23.3
5.50	39.5 - 42.5
11.0	57.0 - 59.5
22.0	73.5 - 76.0
44.0	89.5 - 91.5
88.0	97.9 - 98.9
124.50	99.0 - 100.0
176.0	100.0

3. Transport and Storage:

Partial segregation may occur during transport and storage. It is therefore recommended to homogenize the PTI Arizona Test Dust A2 fine 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 : PTI Arizona Test Dust A2 fine
	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 (µm) : 120
	Bulk density (g/cm³): 0,90
	Substance density (g/cm³) : 2,65
	Apperance : solid
	Hardness (Mohs): 7,0
	Colour : brown / beige
