Product information

Comparison of Arizona test dusts





Arizona test dust according to ISO 12103-1

Arizona test dust according to the international standard ISO 12103-1 is characterized by a very well-defined particle size distribution. We ensure this distribution for two different types of Arizona test dust:

- 1) Arizona test dust ARIZ-TD
- 2) Arizona test dust KSL quartz-free ARIZ-KSL

The particle size distribution of these two types of dust is identical, however, there are differences in the chemical composition:

ARIZ-TD: 68-76 % SiO₂ with other oxides (i.a. Al₂O₃, Fe₂O₃, ... according standard)

<u>Benefit:</u> Accordance to standard both regarding particle size distribution and in terms of chemical composition.

<u>Drawback:</u> Contains more than 10 % respirable crystalline quartz/silica, which, according to IARC (International Agency for Research on Cancer), has a carcinogenic effect on humans. This results in strict occupational safety limits, which can vary depending on the country, but are usually at 0.1 mg/m³ or below.

→ Preferred for product certifications that require strict adherence to the standard and do not allow substitution.

ARIZ-KSL quartz-free: > 97 % aluminum oxide with other oxides

Benefit: quartz-free, no health hazards

<u>Drawback:</u> Does not meet the standard regarding chemical composition.

→ Preferred when the particle size distribution is of primary importance (e.g. IP code according to ISO 20653) and/or exposure to hazardous dust cannot be ruled out.

Both types are available in four defined grades of fineness:

A1: ultrafine / A2: fine / A3: medium / A4: coarse

For any questions on this topic, we are happy to advise you and your specific use case individually. Please feel free to contact us.

Diese Produktinformation stellt keine Spezifikation dar. This product information is no specification.

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