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 three different types of Arizona test dust:

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

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

ARIZ-TD: 68-76 % SiO_2 with other oxides (i.a. Al_2O_3, Fe_2O_3, … according standard)

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

Drawback: Contains more than 10 % respirable quartz, which is classified as STOT RE1.

➔ Favored for product certifications, which require an exact compliance with the standard.

ARIZ-ISO quartz: > 97 % quartz with other oxides

Benefit: Lower cost

Drawbacks:
- Contains more than 10 % respirable quartz, which is classified as STOT RE1.
- Does not meet the standard regarding chemical composition.

➔ Favored if only the particle size distribution but not the chemical composition is important (e.g. IP code testing acc. ISO 20653) and health hazard due to dust exposure can be excluded.

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

Benefit: quartz-free, no health hazards

Drawback: Does not meet the standard regarding chemical composition.

➔ Favored if only the particle size distribution but not the chemical composition is important (e.g. IP code testing acc. ISO 20653) and health hazard due to dust exposure cannot be excluded.

All three types are available in four defined grades of fineness:

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