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~~ISO 13320:2009~~

Particle size analysis — Laser diffraction methods

Withdrawn (Edition 1, 2009)
→ New version available: [ISO 13320:2020](#)

Abstract

ISO 13320:2009 provides guidance on instrument qualification and size distribution measurement of particles in many two-phase systems (e.g. powders, sprays, aerosols, suspensions, emulsions and gas bubbles in liquids) through the analysis of their light-scattering properties. It does not address the specific requirements of particle size measurement of specific materials.

ISO 13320:2009 is applicable to particle sizes ranging from approximately 0,1 µm to 3 mm. With special instrumentation and conditions, the applicable size range can be extended above 3 mm and below 0,1 µm.

For non-spherical particles, a size distribution is reported, where the predicted scattering pattern for the volumetric sum of spherical particles matches the measured scattering pattern. This is because the technique assumes a spherical particle shape in its optical model. The resulting particle size distribution is different from that obtained by methods based on other physical principles (e.g. sedimentation, sieving).

General information

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Stage : Withdrawal of International Standard [[95.99](#)]

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[RSS](#) updates

Life cycle

Previously

Withdrawn
ISO 13320-1:1999



Now

Withdrawn
ISO 13320:2009
Stage: **95.99** ▾



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