
Coating powders —
Part 14:
Terminology

Poudres pour revêtement —
Partie 14: Terminologie



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Published in Switzerland

Foreword

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ISO 8130-14 was prepared by Technical Committee ISO/TC 35, *Paints and varnishes*, Subcommittee SC 9, *General test methods for paints and varnishes*.

ISO 8130 consists of the following parts, under the general title *Coating powders*:

- *Part 1: Determination of particle size distribution by sieving*
- *Part 2: Determination of density by gas comparison pyknometer (referee method)*
- *Part 3: Determination of density by liquid displacement pyknometer*
- *Part 4: Calculation of lower explosion limit*
- *Part 5: Determination of flow properties of a powder/air mixture*
- *Part 6: Determination of gel time of thermosetting coating powders at a given temperature*
- *Part 7: Determination of loss of mass on stoving*
- *Part 8: Assessment of the storage stability of thermosetting powders*
- *Part 9: Sampling*
- *Part 10: Determination of deposition efficiency*
- *Part 11: Inclined-plane flow test*
- *Part 12: Determination of compatibility*
- *Part 13: Particle size analysis by laser diffraction*
- *Part 14: Terminology*

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Coating powders —

Part 14: Terminology

1 Scope

This part of ISO 8130 defines special terms used in the field of coating powders.

Other terms and definitions related to paints and varnishes are given in ISO 4618, *Paints and varnishes — Terms and definitions for coating materials*.

2 Terms and definitions

2.1

agglomeration

condition in which individual particles become joined together into larger assemblies

2.2

back ionization

electrostatic rejection

electrostatic repulsion

dielectric breakdown in an electrostatically deposited powder, caused by an excess accumulation of charge

NOTE The phenomenon is associated with the disruption of the layer, leading to surface defects and to the eventual disintegration of the coating.

2.3

charge-to-mass ratio

ratio of the electric charge on a powder sample to its mass

NOTE A ratio of at least $10^{-4} \text{ C} \cdot \text{kg}^{-1}$ is normally required for acceptable coating performance.

2.4

classification

division of a powder sample into two fractions, one above, the other below a predetermined particle size

2.5

coating powder

finely divided particles of resin, either thermoplastic or thermosetting, generally incorporating pigments, fillers (extenders) and additives, and remaining finely divided during storage under suitable conditions, which, after fusion and possibly curing, give a continuous film

2.6

compaction

agglomeration of particles under pressure