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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 21782.14-2010

Coating powders -- Part 14: Terminology

粉末涂料 第14部分：术语

(English Translation)

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Table of Contents

Foreword

1 Scope

2 Terms and definitions

Foreword

GB/T 21782 "powder coating" is composed of 14 parts, the structure and corresponding international standards are as follows.

--- Part 1. Determination of particle size distribution by sieving (ISO 8130-1:1992, IDT);

--- Part 2. Comparison of the proportion of instrument gas density determination (ISO 8130-2:1992, IDT);

--- Part 3. Determination of liquid displacement pycnometer density (ISO 8130-3:1992, IDT);

--- Part 4. lower explosion limit calculations (ISO 8130-4:1992, IDT);

--- Part 5. Powder air mixture flow measurement (ISO 8130-5:1992, IDT);

Measured at a given temperature thermosetting powder coating of gel time (ISO 8130-6:1992, IDT) --- Part 6;

--- Part 7. Determination (ISO 8130-7:1992, IDT) mass loss during baking;

--- Part 8. Evaluation of the storage stability of thermosetting powders (ISO 8130-8:1994, IDT);

--- Part 9. Sampling (ISO 8130-9:1992, IDT);

--- Part 10. Determination of deposition efficiency (ISO 8130-10:1998, IDT);

--- Part 11. Determination of flow inclined plate (ISO 8130-11:1997, IDT);

--- Part 12. Determination of compatibility (ISO 8130-12:1998, IDT);

--- Part 13. Laser diffraction particle size analysis (ISO 8130-13:2001, IDT);

--- Part 14. Terminology (ISO 8130-14:2004, IDT).

This section GB/T 21782 Part 14.

This section uses the translation method identical with ISO 8130-14:2004 "powder coating Part 14. Terminology." for ease of use of ISO 8130-14:2004 in this section do major editorial

changes as follows.

--- With "this Part" instead of "ISO 8130 part of this";

--- Delete international standards foreword.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee and the pigment coating (SAC/TC5) centralized.

Drafting this Part. Guangdong CIQ, CNOOC Changzhou coating Chemical Research Institute.

1 Scope

This section GB/T 21782 specifies the terms of powder coatings.

Other terms and definitions of paints and varnishes, see ISO 4618 "Paints and varnishes - Terms and definitions."

2 Terms and definitions

Caking agglomeration

A plurality of individual particles are bonded together to form larger aggregates of the case.

Anti-ionization backionization Electrostatic repulsion electrostaticrejection/repulsion
Excessive charge accumulation caused by electrostatic deposition powder in medium
breakdown.

NOTE: This phenomenon is related with the coating rupture, resulting in the coating surface defects resulting in the entire film appears damaged.

Charge to mass ratio of charge-to-massratio Rate charge on its quality powder coatings.

NOTE: In order to achieve the requirements of the powder coating during coating, powder particles of charge to mass ratio of at least $10^{-4} \text{C} \cdot \text{kg}^{-1}$.

Grading classification the powder coating sample was divided into two parts, a part on a predetermined particle size, and partly beneath it.

Powder Coating coatingpowder Good dispersion state of thermoplastic or thermosetting resin particles, usually a mixture of pigments, fillers and additives, under appropriate storage conditions Still maintain state breakdown, after melting and solidifying to form a continuous film.

Compaction Agglomerated particles formed under pressure.

Deposition efficiency the ratio of the powder mass is deposited on a substrate with a

powder spray quality.

Electrostatic fluidized bed it can make a powder sample stream of charged particles while allowing the device.

Electrostatic repulsion electrostaticrejection See 2.2 deionization.