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

GB/T 21782.12-2010

Coating powders -- Part 12: Determination of compatibility

粉末涂料 第12部分：相容性的测定

(English Translation)

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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 is Part 12 GB/T 21782 of.

This section uses the translation method identical with the international standard ISO 8130-12:1998 (E) "powder coating Part 12. Compatibility Determination. " for ease of use of ISO 8130-12:1992 in this section do major editorial changes as follows.

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

"," --- With a decimal point instead of a comma as the decimal point, "";

--- Delete international standards foreword.

This part is proposed by the China Petroleum and Chemical Industry Association (SAC/TC251).

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

This part mainly drafted by. Guangdong CIQ and CNOOC Changzhou coating Chemical Research Institute.

1 Scope

This section GB/T 21782 is Paints, varnishes and related products and sampling series of standard test methods.

This section provides two different powder coatings mixing caused by measurement method the surface properties of the final coating degradation.

The results of this method depends on the powder coating of the following properties. a chemical reactivity; b chemical composition; c meltable... Appearance deterioration open the reaction began, its essence and condition largely depends on the mixing ratio of the powder. Substance may worsen surface appearance in different ways Manifested. a change in gloss; b pinhole, including small pinhole; c "orange peel" look; d "shrinkage"; e from the block; f color mixing...

The method is also applicable to the production and use of powder coating process, the mixing of different coating powder produced incompatible testing.

Note: the mechanical properties of the powder coating may decrease. But this section is only concerned about changes in appearance.

2 Normative references

The following standards contain provisions which through reference GB/T 21782 in this section constitute provisions of this section. When this part of the publication, the following Editions indicated were valid version. All standards are subject to revision, to encourage the parties to agreements based on this study using the following criteria the latest version. ISO and IEC members retain currently valid International Standard.

GB/T 9754-2007 Paints and varnishes contain metallic paint films of 20 °, 60 ° and 85 ° specular gloss measurement (ISO 2813:1994, IDT) GB/T 21782.9-2010 powder coatings Part 9 samples (ISO 8130-9:1992, IDT) ISO 1514:2004 Paints and varnishes - Standard panels for Principle 3 the powder coating according to a series of different proportions of each mixture was applied to a standard test plate, heating and check whether the surface that there is no Compatible.

4 Instrument

Common laboratory equipment and the following instruments.

4.1 Stainless steel plate or cold-rolled steel

In line with ISO 1514:2004 standard for clean, oil-free steel, one end of the drilled hole can be hung.

4.2 Dusting system

Including corona charging or triboelectric charging guns and gun powder room with powder dust collecting appropriate means.

4.3 Clean containers

You can test a suitable container containing the powder.

Note: The plastic bag is generally suitable non-metallic container of powder coatings.

4.4 Balances

Accurate to 10mg.

4.5 Oven

Ovenable after spraying test panels.