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**NONFERROUS METALS INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

YS/T 705-2009

**Analysis methods of aluminum hydroxide for filler
conductance. Determination of chrominance**

填料用氢氧化铝分析方法 色度的测定

(English Translation)

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Foreword

This standard adopts the International Commission on Illumination (CIE) to under D65 standard illuminant conditions 1976L Rao Chou (CIELAB) uniform color space Room with aluminum hydroxide filler represents chroma, and the International Commission on Illumination (CIE) No. 15.2 (1986) "colorimetry" color representation Consistent.

Appendix A of this standard is an informative annex.

This standard by the National Standardization Technical Committee of non-ferrous metals and centralized.

This standard by the Aluminum Corporation of China Shandong Branch, China Nonferrous Metals Industry Institute of Standards Metrology and Quality is responsible for drafting.

This standard by the Aluminum Corporation of China Zhengzhou Research Institute, Aluminum Corporation of China Zhongzhou Branch participated in the drafting.

1 Scope

This standard specifies the method for determination of aluminum hydroxide filler chromaticity.

This standard applies to the determination of aluminum hydroxide filler chromaticity. Measuring range. L. 80.00 ~ 99.99; Rao . -0.50 ~ 0.50;

Chou . -0.20 ~ 1.30.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 3978 standard lighting and geometric conditions Methods of measurement GB/T 3979 object colors

3 Terms

With L, Rao , Chou expressed . 1976 International Commission on Illumination (CIE) defined L Rao Chou (CIELAB) color space, L, Rao , Chou represents color index, L Representative from 0 (black) to 100 (white), red direction + Rao representatives - Rao green direction, + Chou behalf of Huang Fang to - Chou representatives of blue direction.

4 Method summary

In D65 standard illuminant and a 10 ° field of view of the conditions, the measured spectral reflection factor of the sample, the sample obtained by the integral operation tristimulus values X, Y, Z, calculated according to the colorimetry sample color L, a, Chou .

5 Instruments

Color measurement instrument. the instrument lighting conditions of observation may be vertical diffusion irradiation probe (o/d) or diffuse irradiation Sounding (d/o).

6 Sample

Sample was pretreated in an oven at 105 °C ± 5 °C drying 2h, after removal placed in a desiccator, cooled to room temperature.

7 Measuring step

7.1

preheating equipment.

7.2

Selected D65 standard illuminant and a 10 ° field of view measuring conditions, with standard board calibrate the instrument.

7.3

Preparation of the sample according to the measurement requirements (quartz cuvette or otherwise sample preparation), until the test specimen surface should be smooth and free of cracks, placed in color measurement Colorimetric values measured on a sample instrument.

8 Calculation of Analytical Results

Respectively, according to the formula (1), the equation (2) and (3) calculate the sample L, Rao , Chou value.