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

GB/T 21868.6-2008

**Pigments and extenders -- Methods of dispersion for
assessment of dispersion characteristics -- Part 6: Dispersion
using a triple-roll mill**

颜料和体质颜料 评定分散性用的分散方法 第6部分:用三辊磨分散

(English Translation)

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Foreword

This section identical with the international standard ISO 8780-6:1990 "Pigments and extenders --- dispersion for assessment of dispersion method used in the first ---Part 6. a three-roll mill dispersion "(in English).

This section is one of the GB/T 21868 "dispersion method of pigments and extenders assessment of dispersion characteristics with" national standards, listed below A series of national standards with international standards and the structure corresponding to.

- Part 1. General (ISO 8780-1:1990);
- Part 2. oscillation mill dispersion (ISO 8780-2:1990);
- Part 3. dispersion using a high speed mixer (ISO 8780-3:1990);
- Part 4. sand dispersion (ISO 8780-4:1990);
- Part 5. automatic flat mill dispersion (ISO 8780-5:1990);
- Part 6. (1990 ISO 8780-6) dispersed with a three-roll mill.

This section GB/T 21868 Part 6.

Are listed below in this section is closely related to the GB/T 21867 "Evaluation Method pigments and dispersion" series of national standard Prospective structure and corresponding international standards.

- Part 1. Changes the tinting strength of colored pigments to be assessed (ISO 8781-1:1990);
- Part 2. change the fineness of grind to be assessed (ISO 8781-2:1990);
- Part 3. Evaluation of changes in the gloss (ISO 8781-3:1990).

This section of Appendix A normative appendix.

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

This part of the National Standardization Technical Committee and is under the jurisdiction of paints and pigments.

This section is drafted. in the construction of Changzhou coating Chemical Research Institute, Kunshan City Shiming Technology Development Co., Ltd.

1 Scope

This section provides a three-roll mill dispersion method of pigments and extenders. Test results of this method has the potential to become a test product by Corresponding production equipment for dispersing the dispersion obtained good or bad conclusions.

This section should be combined with GB/T 21867 Evaluation Method according to use them, use the agreed high viscosity, non-volatile compounds paint matrix system. This section should be read in conjunction with the GB/T 21868.1-2008.

This method is limited to the high viscosity of the grind. To improve the accuracy of the method, the test is recommended and agreed reference pigment dispersion of pigment Program (process) to be performed at the same temperature. The results of this method and the results should not be dispersed with other methods of dispersion of results Comparison.

NOTE: The advantage of this part of the three-roll mill dispersion equipment is easy to operate, can be prepared in an appropriate amount of millbase comprehensive assessment of dispersion characteristics, the device easy to get into Line cleaning and dispersion can be dispersed Results Results obtained with the production of machinery and equipment from the corresponding. This part of the class of three-roll mill, unlike low demand Millbase formulation viscosity dispersion device, which allows the grind recipe be adjusted within a wide range of high viscosity. Because of this strong adaptability , And therefore need not be strictly specifies an appropriate mill base recipe.

2 Normative references

The following documents contain provisions which, through reference GB/T 21868 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 3186-2006 Paints, varnishes and raw materials for paints and varnishes - Sampling (ISO 15528:2000, IDT) GB/T 6753.1-2007 Paints, varnishes and printing inks Determination of fineness of grind (ISO 1524. 1983, IDT) GB/T 13451.2-1992 relative tinting strength of colored pigments and relative scattering power of white pigments - Photometric methods (idt ISO 787-24. 1985) GB/T 21868.1-2008 Methods for dispersing pigments and extenders assessment of dispersion characteristics with 1. General (ISO

8780-1.

1990, IDT)

GB/T 21867.1-2008 Evaluation Method of pigments and dispersion - Part 1. change the tinting strength of colored pigments of assessed (ISO 8781-1:1990, IDT) GB/T 21867.2-2008 Evaluation Method of pigments and dispersion - Part 2. Changes by the fineness of grind was Assessment (ISO 8781-2:1990, IDT) GB/T 21867.3-2008 Evaluation Method of pigments and dispersion - Part 3. Evaluation of changes in the gloss (ISO 8781-3:1990, IDT)

3 Requires supplementary information

Test methods specified in this part needs to be improved with additional information. The contents of the supplementary information is given in Appendix A.

4 Equipment

Normal laboratory equipment and glassware, as well as the following equipment.

4.1

three-roll mill, with a temperature control device and a mixing device and comply with the following requirements.

GB/T 21868.6-2008/ISO 8780-6:1990