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

GB/T 9281.1-2008

Replacing GB/T 9281-1988

**Clear liquids -- Estimation of colour by the Gardner colour scale
-- Part 1: Visual method**

透明液体 加氏颜色等级评定颜色 第1部分：目视法
(English Translation)

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Foreword

This section identical with the international standard ISO 4630-1:2004 "clear liquid Gardner color grading color - Part 1. Visual Law "(in English).

This Part replaces GB/T 9281-1988 "Paints and varnishes - Estimation of color of clear liquid Foundation's paint color grading." this part of the previous version GB/T 9281-1988 main technical differences are as follows.

- Front line version is equivalent to using ISO 4630. 1981;
- Scope added tall oil, tall oil fatty acids, rosin and related products;
- Added turbid liquid treatment;
- Reproducibility limit (R) value is determined by a number of standard colors 4/3 to 2 color standard number;
- Appendix B test water from the two water changed at least three water;
- Adds Gardner color standard solution (chloroplatinic potassium solution) storage conditions and life requirements.

GB/T 9281.1 is one of "clear liquid Gardner color grading color" series of standards, which are listed below national standards Expected international standard and the corresponding structure.

- Part 1. Visual method (ISO 4630-1:2004);
- Part 2. spectrophotometric method (ISO 4630-2:2004).

This part of the Appendix A and Appendix B are 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.

1 Scope

This section provides the use of color measurement devices, color grading with Chiari yellow or brown transparent liquid color approach. If Other colored liquids in measured results may not be valid.

This section applies to drying oils, varnishes and fatty acid solution, polymeric fatty acids, resins, tall oil, tall oil fatty acids, rosin and related product.

This section applies to color in Gardner color grades 1-18 do not apply to a lighter color than the color level or ratio Chiari Chiari Level 18 color darker product.

2 Normative references

The following documents contain provisions which, through reference to GB/T 9281 to the present, 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 Paints, varnishes and raw materials for paints and varnishes - Sampling (GB/T 3186-2006, ISO 15528:2000, IDT) GB/T 6682 laboratory use specifications and test methods (GB/T 6682-1992, neq ISO 3696. 1987) CIE Publication No. 15.2 colorimetry Principle 3 the sample is placed in line with the standard diameter glass tube to visually marked with a series of numeral color standard determined by comparing the sample Product color closest to the color standard, measurement results are shown in Canadian's number color number.

4.1.1 Reference Standard

Table chromaticity coordinates and light transmittance specified as a calibration reference standard.

Those who do not meet the requirements of Table 1 of the color standard should be discarded.

Table 1 reference standard color specifications

Gardner Color

Standard

Chromaticity coordinates X0 y Optical transmittance Y /Transmittance Tolerance ($\pm$) /% 1

0.3177 0.3303 807 2 0.3233 0.3352 797 3 0.3329 0.3452 766 4 0.3437 0.3644 755 5
0.3558 0.3840 744 6 0.3767 0.4061 714 GB/T 9281.1-2008/ISO 4630-1:2004