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

GB/T 9282.1-2008

Replacing GB/T 9282-1988

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

透明液体 以铂-钴等级评定颜色 第1部分：目视法

(English Translation)

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Foreword

GB/T 9282 "transparent liquid platinum - cobalt color grading" is divided into two parts, which are listed below national standards are expected to knot its structure corresponds to international standards.

--- Part 1. Visual method (ISO 6271-1:2004);

--- Part 2. spectrophotometric method (ISO 6271-2:2004).

This section GB/T 19282 Part of the present partial modification of international standards ISO 6271-1:2004 "transparent liquid ---Platinum - cobalt color grading --- Part 1. Visual method "(in English).

This section in the use of international standards have been modified, these technical differences between a single vertical line identifies the page in terms of which they are involved Margin. It gives a list of the technical differences and their reasons in Appendix A for reference.

This part of International Standard ISO 6271-1:2004 main technical differences are as follows.

--- Remove this section of the chapter on the international standards of precision;

--- This section deleted international standards Preface Introduction.

This Part replaces GB/T 9282-1988 "transparent liquid platinum - cobalt color grading." this part of the previous version GB/T 9282-1988 main technical differences are as follows.

--- Front line version is equivalent to using ISO 6271. 1981;

--- Cancel the platinum - cobalt units 5,15,25,35,175 five levels.

Appendix A of this section is an informative annex.

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 GB/T 9282 provisions of the platinum - cobalt units a way to assess the transparent liquid color.

This section applies to color and platinum - cobalt scale similar standard colors transparent liquid.

2 Normative references

The following documents contain provisions which, through reference to GB/T 9282 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 analytical laboratory use specifications and test methods (GB/T 6682-1992, neq ISO 3696. 1987)

3 Terms and Definitions

The following terms and definitions apply to this section.

Containing a predetermined concentration of platinum [chlorine platinum (IV) ion salt form] and cobalt chloride (II) hexahydrate solution color gradation.

Principle 4

The color of the sample and color standards for comparison. Identified with the color closest to the sample standard colorimetric solution, and this result by the platinum - cobalt Units.

5 Reagents

During the test, use only recognized as analytical reagent, and conforming purity GB/T 6682 provisions of at least three Laboratory water.

5.1

chloro platinum (IV), potassium, K_2PtCl_6 .

5.2

cobalt chloride (II) hexahydrate, $\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$.

5.3

Hydrochloride. mass fraction of 38%, $\rho \sim 1.19\text{g/mL}$.

6 Instruments

Using ordinary laboratory equipment, glassware and the following instruments.

6.1

colorimetric tube. flat, capacity 100mL, equipped with optically transparent, grinding mouth glass stopper. Each color than the color and thickness of the glass tube should it shall be marked with a tick between consistent bottom of the tube above 275mm and 295mm. Selected colorimetric tube of each tube height difference does not exceed the mark 3mm.

6.2

colorimeter. it should be designed to allow visual comparison along colorimetric tube (6.1) longitudinally through transmitted light. The structure should be made from white glass Transmitted or reflected off over a white light with equal intensity through the cuvette, and the colorimeter should be blocked in order to prevent light from the side Penetration into the cuvette.

6.3

Spectrophotometer. capable of measuring a wavelength of 430nm, 455nm, 480nm and 510nm light transmittance of an accuracy of at least