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NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1384-2012

Calibration Specification for Open/Closed Cup Flash Point Testers

开口/闭口闪点测定仪校准规范

(English Translation)

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Introduction

In the present specification JJF 1071 "national measurement calibration specifications preparation of specifications", JJF 1001 "universal metering and fixed term Justice ", JJF 1059" Evaluation and Expression of Uncertainty in Measurement "as the basis of specifications developed series.

This specification according to the national standard GB/T 3536-2008 "Determination of flash and fire points of petroleum products Cleveland Open Cup "and GB/T 261-2008" Flash Point by Pensky - Martens closed cup method "compiled. They are suitable for GB/T 3536-2008 in the "Flash Test Procedure" and GB/T 261-2008 in the "Step A".

This specification is the first release.

Open/closed flash point analyzer calibration specification

1 Scope

This instruction applies to Cleveland open cup flash point tester and Pensky - Martens closed cup flash point tester (Only for GB/T 261-2008 in the "Step A") (hereinafter referred to as the flash point meter) calibration.

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2. References

GB/T 261-2008 for Flash Point by Pensky - Martens closed cup method GB/T 3536-2008 Petroleum products - Determination of flash point and ignition point Cleveland open cup method for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Overview

Depending on the test conditions, the flash point generally includes an opening closed flash point flash point and two types. Cleveland open flash Point is the most commonly used open flash point, Pensky - Martens closed flash point is the most widely used closed flash point.

Cleveland Open Cup Flash Point Tester is examined in an open environment the degree of flammable liquids for opening Flash point above 79 °C, in addition to fuel oil petroleum products. Its working principle is to sample cup is filled with oil to Regulation Set the mark, the first rapid increase at a constant speed sample temperature, when a sample is expected to be close to the flash point, the heating rate is lowered to slow uniform heating. Before reaching a flash point temperature is expected to start at a predetermined temperature interval, with a small test Fire swept mortem test cup, the test flame causes the lowest temperature of the sample vapor above the liquid sample as a flash fire when opening Flash point.

Pensky - Martens closed cup flash point tester is examined in a closed environment flammable liquid level for closing Opening a flash point above 40 °C distillates, unused lubricating oils and other liquids. Works is to load a sample test Cup experience to a predetermined groove, continuously stirred while slowly heating the sample uniform, is expected to reach a flash point temperature before the start, at a predetermined temperature interval, in case of interruption of stirring, the introduction of a small flame cup test flame causes the sample the lowest temperature on vapor liquid flash fire when closed flash point as a sample.

Open/closed flash point tester consists of a heating device, temperature measurement equipment, ignition systems and other components test cup, closed Flash Point Tester mouth a little more than attempting entrance test lid and a stirring device. In addition, the drive comes with automatic flash point tester Sequence heating system and flash fire detection system.

4 Metrological characteristics Technical indicators Repeatability and error indication in Table 1.

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