

ICS 17.200
CCS A 54

JJF

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

JJF 1412-2013

**Calibration Specification for Clinical Color Change
Thermometers
(English Translation)**

Issued on: January 1, 1970

Implemented on: January 1, 1970

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

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Introduction

This specification based JJF 1071-2010 "National Calibration Specifications writing rules" establishment, where the measurement is not Evaluation is based on degree of certainty JJF 1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement" in.

This specification metrological characteristics of the temperature range, dividing the value, retention time and indication errors were cited EN12470-2.

2000 A1.2009 "clinical thermometer Part 2 phase change type (dot matrix) thermometers" [Clinicalther-mometers-Part 2. Phasechangetype (dotmatrix) thermometers] in 5,6.1,6.2 and 6.5.

This specification calibration conditions in ambient temperature reference ASTM E825-98 (Reapproved2009) "to make a one-time Intermittent measuring body temperature thermometer using phase-change
"(PhaseChange-TypeDisposableFeverTher-mometerforIntermittentDeterminationofHumanT emperature) of 5.5 and ASTM E1299-96 (Reapproved2010) "Reusable intermittently measuring body temperature phase change type thermometer"
(ReusablePhase-Change-TypeFeverThermometerforIntermittentDeterminationof HumanTemperature) of 5.5.

EN12470-2:2000 A1.2009 measured as specified in ASTM E 825-98 covers (Reapproved2009) and ASTM E1299-96 (Reapproved2010) specified measurement range, more in line with the actual situation.

The specification for the first time to develop.

Clinical thermometer calibration with color specification

1 Scope

This standard applies to the measurement in the range of 35.5 °C ~ 42.0 °C for measuring body temperature with a color clinical thermometer (Hereinafter referred to as a thermometer) calibration.

2. References

This specification references the following documents.

EN12470-2:2000 A1.2009 Clinical thermometers - Part 2 with a phase change type (dot) temperature Meter [Clinicalthermometers-Part 2. Phasechangetype (dotmatrix) thermometers] ASTM E825-98 (Reapproved2009) disposable intermittent measuring body temperature of a phase change type body Thermometer
(PhaseChange-TypeDisposableFeverThermometerforIntermittentDetermina-tionofHumanTe mperature) ASTM E1299-96 (Reapproved2010) reusable intermittently measuring the body temperature of a phase-change Thermometer

(ReusablePhase-Change-TypeFeverThermometerforIntermittentDeterminationofHumanTemperature) 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 Terms

3.1 discoloration thermometer colorchangethermometer Using a series of temperature-sensitive color change point status indicator to measure the temperature of the thermometer.

3.2 reusable thermometer You can use many of the thermometer.

Note: a maximum limit frequency of use.

3.3 Disposable thermometer Use a thermometer to waste.

Note: The storage temperature not higher than the lower limit of the measurement range.

3.4 Temperature compensation value temperatureoffset Temperature correction amount from the actual value and the thermometer shows the temperature of the reasons for compensating thermal conduction caused provided.

[EN12470-2:2000 A1.2009 3.5] Note. The thermometer in the measurement range, only a uniform temperature compensation value.

3.5 Pre-tune thermometer preadjustedthermometer Thermometer having temperature compensation value. [EN12470-2:2000 A1.2009 3.6] 3.6 temperature point temperature dot Spherical capsules small clinical thermometer on the different chemical composition of the mixture having a specific color temperature.