

ICS 75.060
CCS E 24



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

GB/T 17283.1-2025

Replacing GB/T 17283-2014

**Natural gas - Determination of moisture - Part 1: Determination
of water dew point by cooled surface condensation
hygrometers**

天然气 水分的测定 第1部分：用冷却镜面凝析湿度计法测定水露点
(English Translation)

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Foreword

GB/T 17283.1-2025 is a recommended national standard (GB/T) of the People's Republic of China, issued on 29 August 2025 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2026.

This edition replaces GB/T 17283-2014.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the Standardization Administration of China.

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1 Scope

Moisture in natural gas affects pipeline integrity, custody transfer and gas quality, and this document covers one way of measuring it: finding the water dew point with a cooled surface condensation hygrometer. It is Part 1 of the series on moisture determination in natural gas and concentrates on the chilled-mirror principle, in which a surface is cooled until condensation forms.

The method is of interest to gas producers, pipeline and storage operators, gas processing plants, instrument suppliers and laboratories that calibrate or operate dew point equipment. Buyers and sellers who set water content limits in supply contracts also depend on a clearly defined measurement method to settle disputes.

Issued on 29 August 2025, the standard comes into effect on 1 March 2026 and replaces GB/T 17283-2014. It is a recommended national standard, voluntary by nature, though contracts and company specifications frequently make it binding in practice. Users working to the 2014 edition should plan their transition before the new date.