

ICS 71.040.40
CCS G76



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

GB/T 12151-2026

Replacing GB/T 12151-2005

**Analysis of water used in boiler and cooling system -
Determination of turbidity - Spectrophotometry**

锅炉用水和冷却水分析方法 浊度的测定 分光光度法

(English Translation)

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Foreword

GB/T 12151-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 September 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 April 2027.

This edition replaces GB/T 12151-2005.

It is under the responsibility of the China Petroleum and Chemical Industry Federation.

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1 Scope

Cloudy water can foul heat-transfer surfaces and signal problems in treatment systems, so turbidity is routinely monitored in the water used in boilers and cooling circuits. This standard describes how to determine turbidity in such water by spectrophotometry. It belongs to the family of analysis methods for boiler water and cooling water and is aimed at power plant chemists, industrial water-treatment staff, environmental and process laboratories, and service companies that monitor water quality for utilities and factories.

Users will find it relevant wherever boiler feed, circulating cooling water or similar streams are sampled and routinely tested. The edition was issued on 28 September 2026 and takes effect on 1 April 2027, replacing GB/T 12151-2005. It is a recommended national standard, and it is administered by the China Petroleum and Chemical Industry Federation.

Laboratories that currently report turbidity against the previous edition should review the new text before updating their procedures and reporting formats.