

ICS 25.160.10
CCS J33



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

GB/T 18591-2026

Replacing GB/T 18591-2001

**Welding - Measurement of preheating temperature, interpass
temperature and preheat maintenance temperature**

焊接 预热温度、道间温度及预热维持温度的测量

(English Translation)

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Foreword

GB/T 18591-2026 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 18591-2001.

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

Preheat and interpass temperatures strongly influence weld quality in many steels, and this standard concerns how to measure preheating temperature, interpass temperature and preheat maintenance temperature in welding. It is intended for welding engineers, supervisors, inspectors, fabricators and procedure qualification laboratories that must verify temperatures during production and keep documentation of them.

A reliable measuring practice supports compliance with welding procedure specifications and helps both contractors and clients to show that temperature requirements were met in the shop or on site. It replaces GB/T 18591-2001, a long interval, so organisations that still rely on the earlier edition may find that their measurement practice needs review. The standard adopts an international standard and is a recommended national standard (GB/T). It becomes effective on 1 April 2027.