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

GB/T 25434-2025

Replacing GB 25434-2010

Safety requirements of rubber and plastics calenders

橡胶塑料压延机安全要求

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting.

This document replaces GB 25434-2010 "Safety Requirements for Rubber and Plastic Calendering Machines". Compared with GB 25434-2010, the main differences are in structural adjustments and...

Aside from editorial changes, the main technical changes are as follows.

- a) The scope has been expanded to include "two-roll or three-roll extrusion calenders" (see Chapter 1);
- b) Removed the hazards "fire hazard caused by flammable materials coming into contact with hot parts of the calender" and "fire hazard caused by the processed materials" from the list of hazards.

The dangers caused (see Chapter 1 and Appendix C of the 2010 edition);

- c) Some terms and their definitions have been deleted (see 3.2 and 3.8 of the 2010 edition);
- d) Some terms and their definitions have been added (see 3.1.11 and 3.1.12);
- e) Design requirements for hydraulic equipment and its components, and pneumatic equipment and its components have been added (see 4.1);
- f) The performance levels of safety-related components in the control system have been increased to comply with GB/T 16855.1-2018 (see 4.2.1);

- g) The requirements for separating the braking system and the rollers have been changed (see 4.2.5, 4.2.6, 4.3.1.3~4.3.1.6, and 5.1.1.3.2 in the 2010 version);
- h) The installation height requirement for the "trip arm" in the safety requirements and/or protective measures has been changed (see 4.3.1.4, 5.1.1.4.2 of the 2010 version);
- i) Added requirements for "pressure-sensitive pads or pressure-sensitive flooring" as a safeguard (see 4.3.1.5);
- j) Usage information has been changed (see Chapter 6, Chapter 7 in the 2010 edition).

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Rubber and Plastics Machinery (SAC/TC71).

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- First published in 2010 as GB 25434-2010;
- This is the first revision.

Introduction

According to the classification of GB/T 15706, this document belongs to Class C standards.

This document is particularly relevant to the following stakeholders related to machinery safety.

- Machine manufacturer,
- Health and Safety Agency.

Other stakeholders affected by the level of mechanical safety include.

- Machine users,