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

GB/T 16997-2025

Replacing GB/T 16997-1997

Adhesives - Designation of main failure patterns

胶粘剂 主要破坏类型的表示法

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 16997-1997 "Representation of the main failure types of adhesives".

In addition to structural adjustments and editorial changes, the main technical changes are as follows.

--- Increased adhesive stress whitening failure (SWCF) (see Table 1);

--- Increased the corrosion damage of the bonding surface (COR) (see Table 1).

This document is equivalent to ISO 10365:2022 "Representation of the principal types of failure of adhesives".

1 Scope

This document describes the main failure types and modes of adhesively bonded joints and illustrates their failure phenomena graphically.

This document applies to mechanical property tests performed on adhesive joints and is independent of the properties of the adherends and adhesives that make up the joints.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document.

For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

ISO 472 Plastics - Vocabulary

3 Terms and Definitions

For the purposes of this document, the terms and definitions defined in ISO 472 and the following apply.

3.1 Adhesive joint assembly

Completed glued assembly.

3.2 Adhesion failure

Visually visible damage occurs at the interface between the adhesive and the adherend.

3.3

cohesive failure; cohesion failure Visible damage to the adhesive or adherend occurs.

4 Applications

The test results of the mechanical properties of adhesive joints are usually expressed in test values. In order to better reflect the bonding effect of adhesive joints, various types of broken Bad provides a representation of the type of damage. The damage types are shown in Table 1.