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

GB/T 5267.4-2009

**Passivation of corrosion-resistant stainless-steel fasteners
(English Translation)**

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Table of Contents

Foreword...	3
1 Scope...	4
2 Normative references...	4
3 Terms and definitions...	4
4 Passivation...	5
5 Verification of passivation...	6
Annex A (informative) Passivity...	7

Foreword

This Part is one of the series of national standards "Fastener surface treatment".

The series includes:

- a) GB/T 5267.1-2002, Fasteners - Electroplated Coatings;
- b) GB/T 5267.2-2002, Fasteners - Non-electrolytically applied zinc flake coatings;
- c) GB/T 5267.3-2002, Fasteners - Hot dip galvanized coatings;
- d) GB/T 5267.4-2002, Passivation of corrosion-resistant stainless-steel fasteners.

This Part is Part 4 of GB/T 5267.

This Part identically adopts the international standard ISO 16048:2003

"Passivation of corrosion-resistant stainless-steel fasteners" (English version).

In the normative references, use Chinese standards to replace international standards (Chapter 2).

Annex A of this Part is informative.

This Part was proposed by China Machinery Industry Federation.

This Part shall be under the jurisdiction of National Technical Committee on Fasteners of Standardization Administration of China (SAC/TC 85).

Main drafting organizations of this Part: China Machinery Productivity

Promotion Center.

This Part is explained by the Secretariat of National Technical Committee on Fasteners of Standardization Administration of China.

Passivation of corrosion-resistant stainless-steel fasteners

1 Scope

This Part of GB/T 5267 specifies the methods most often used for passivation of corrosion-resistant stainless-steel fasteners.

Typical anodic dissolution behaviour of an active-passive-transpassive metal is given in Annex A.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Part of GB/T 5267. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 3098.6, Mechanical Properties of fasteners- Stainless steel bolts, screws and studs (GB/T 3098.6-2000, idt ISO 3506-1:1997)

GB/T 3098.15, Mechanical properties of fasteners-Nuts made of stainless-steel (GB/T 3098.15-2000, idt ISO 3506-2:1997)

GB/T 3098.16, Mechanical properties of fasteners - Stainless steel set screws (GB/T 3098.16-2000, idt ISO 3506-3:1997)

GB/T 3098.21, Mechanical properties of fasteners - Stainless steel tapping screws (GB/T 3098.21-2008, ISO 3506-4:2003, Mechanical procedure corrosion-resistant stainless-steel fasteners - Part 4: Tapping screws, IDT)

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 passivation

chemical treatment that increases the thickness of the naturally occurring chromium rich oxide film present on all types of stainless-steel surfaces

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