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

GB/T 43376-2023

**Aerospace - Surface treatment of hardenable stainless steel
parts**

航空航天 可热处理强化不锈钢零件表面清理

(English Translation)

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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 has been modified to adopt ISO 8075:1985 "Surface Cleaning of Heat-Treatable and Strengthened Stainless Steel Parts for Aerospace":

Compared with ISO 8075:1985, this document has many structural adjustments:
Comparison list of structure number changes between the two files See Appendix A:

Compared with ISO 8075:1985, this document has many technical differences: Vertical single words are used in the outer margins of the clauses involved:

The line (-) is marked: A list of these technical differences and their causes is provided in Appendix B:

The following editorial changes have been made to this document:

---Added references:

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the technical requirements and packaging requirements for surface cleaning of heat-treatable reinforced stainless steel parts during the manufacturing process:

This document is applicable to the surface cleaning of martensitic, precipitation hardening and maraging stainless steel parts, and the surface cleaning of austenitic stainless steel parts:

Implement by reference:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 337.1 Industrial nitric acid Concentrated nitric acid GB/T 625 Chemical Reagent Sulfuric Acid GB/T 665 Chemical reagent anhydrous copper sulfate (II) (copper sulfate) GB/T 6026 Acetone for industrial use GB/T 7744 Industrial hydrofluoric acid GB/T 12609 Sampling procedures for counting and inspection of electrodeposited metal coverings and related finishes GB 21900 Electroplating Pollutant Emission Standard

3 Terms and definitions

The following terms and definitions apply to this document:

The structure of stainless steel can be transformed through heat treatment to generate phases with strengthening effects, thereby obtaining the desired strength:

Stainless steel:

Note: Stainless steel usually includes martensitic stainless steel (such as 2Cr13), precipitation hardened stainless steel (such as 0Cr13Ni8Mo2Al) and maraging stainless steel (such as 3.2 surface cleaningsurfacecleaning Use mechanical or chemical methods to remove pollutants (including organic pollutants, metals and inorganic pollutants) on the surface of materials and parts (components) the process of:

4 Technical requirements

Warning: The methods specified in D:2:3, D:2:4 and Appendix E can remove important surface materials: These removal methods should be used with caution to satisfy Meet final size requirements: