

METRIC

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SUPERSEDING  
MIL-STD-871C  
30 JUN 2015

# DEPARTMENT OF DEFENSE STANDARD PRACTICE

## ELECTRO-CHEMICAL STRIPPING OF INORGANIC FINISHES



This specification is approved for use by all Departments and Agencies of the Department of Defense.

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AMSC: N/A

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### FORWARD

1. This detail standard is approved for use by the AF70 Hill AF Base, OO-ALC/EN Engineering Office, Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.
2. This standard provides guidance on the processes for stripping inorganic finishes from military components.
3. Comments, suggestions, or questions on this document should be addressed to OO-ALC/EN, Bldg. 849, Hill AFB, UT 84056 or email to: [OOALC.EN.Workflow@us.af.mil](mailto:OOALC.EN.Workflow@us.af.mil). Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database <https://assist.dla.mil>.

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## SUMMARY OF CHANGE ONE MODIFICATIONS

<u>PAGE / PARAGRAPH</u>	<u>MODIFICATIONS</u>
Page I – Title	Changed
Page ii – Forward	Changed
Page iii – Summary of changes	Changed
Page iv – v Table of contents	Changed
2.2.1 – 2.2.2	Changed
2.3	Changed
4.1	Changed
4.1.1. – 4.1.2	Changed
4.1.3.3 – 4.1.3.4	Changed
4.1.3.5	Added
4.2 – 4.5	Deleted (Moved to 5)
5.2 – 5.5	Changed
5.5.1 – 5.5.7	Changed
5.3.8 – 5.3.9	Added
TABLE I – III	Changed
5.6	Changed
5.6.2 – 5.6.15	Changed
5.6.6 – 5.6.7	Changed
5.7 – 5.7.6	Changed
5.8 – 5.9	Changed
Concluding Material	Changed

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## 1. SCOPE

1.1 Scope. This standard covers the process and materials required for the stripping of inorganic finishes. Subsequent heat treating techniques needed to ensure hydrogen embrittlement relief of the steel substrate are also described.

## 2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4 and 5 of this standard. This section does not include documents cited in other sections of this standard or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, and 5 of this standard, whether or not they are listed.

### 2.2 Government documents.

2.2.1 Specifications, standards, handbooks, and commercial item descriptions (CID). The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

#### DEPARTMENT OF DEFENSE SPECIFICATIONS AND STANDARDS

MIL-DTL-5541	Chemical Conversion Coatings on Aluminum and Aluminum Alloys
MIL-PRF-29602	Performance Specification Cleaning Compounds, Parts Washer and Spray Cabinet
MIL-PRF-87937	Performance Specification Cleaning Compound, Aerospace Equipment

(Copies of these documents are available online at <https://assist.dla.mil>.)

#### COMMERCIAL ITEM DESCRIPTIONS

A-A-55820	Orthophosphoric (Phosphoric) Acid, Technical
A-A-55827	Chromium Trioxide, Technical
A-A-55828	Sulfuric Acid, Technical
A-A-55829	Acetic Acid, Glacial, Technical
A-A-59105	Nitric Acid, Technical
A-A-59260	Sodium Hydroxide
A-A-59282	Chemicals, Analytical
A-A-59476	Ammonium Nitrite, Anhydrous, Technical
A-A-59563	Sodium, Carbonate, Anhydrous, Technical

(Copies of these documents are available online at <https://assist.dla.mil>.)