



# AEROSPACE RECOMMENDED PRACTICE

ARP1360™

REV. B

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Superseding ARP1360A

## Detection of Chloride and Bromide Contamination of Electronic Equipment

### RATIONALE

ARP1360B stabilizes this document because this document covers technology for which the expertise no longer exists in a Technical Committee.

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## 1. SCOPE:

### 1.1 Purpose:

This recommended practice covers a test for detecting residual chlorides and bromides on electronic equipment.

1.2 The detailed procedures noted herein are based on laboratory and production experience and reflect those design practices and fabrication procedures, such as wave soldering, that require the use of activated flux for solder connections. This procedure has been used as a means of satisfying the intent of MIL-STD-454, Requirement 5, which permits the use of only R or RMA flux.

### 1.3 Application:

Primarily to establish qualitatively and quickly the effectiveness of cleaning processes used during production operations to remove chloride and bromide contamination.

## 2. PREPARATION OF SOLUTIONS:

### 2.1 Chloride and/or Bromide-Free Water:

Rinse water shall be distilled or deionized water having resistivity not lower than 1 megohm-cm, measured using an in-line cell.

### 2.2 Silver Nitrate Solution:

Shall be approximately 5% by weight silver nitrate in chloride/bromide-free water containing 1 mL of 70% nitric acid per liter of solution.