



IPC-7535

## 锡渣抗氧化还原剂要求

## Requirements for Solder Dross Reduction Chemicals

这份双语的IPC 国际标准是由锡渣抗氧化还原剂任务组（5-22jcn）以母语中文开发并翻译成英语，经由专业审查后出版。如中文与英文之间有冲突，以中文为优先。

This dual language IPC international standard was developed by the Solder Dross Reduction Chemicals Task Group (5-22jcn) in its native language and was translated to English for peer review and publication. In the event of conflict between Mandarin and English, Mandarin will take precedence.

鼓励本标准的使用者参加未来修订版的开发。

Users of this standard are encouraged to participate in the development of future revisions.

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# 目录

## Table of Contents

<b>1 总则 (GENERAL)</b> .....	1	<b>5.1 检验职责 (Responsibility for Inspection)</b> .....	14
1.1 范围 (Scope) .....	1	5.1.1 符合职责 (Responsibility for Compliance) ...	15
1.2 目的 (Purpose) .....	1	5.1.2 测试设备和检验设施 (Test Equipment and Inspection Facilities) ...	15
1.3 “应当”的说明 (Interpretation of Shall) .....	1	5.1.3 检验条件 (Inspection Conditions) .....	15
<b>2 适用文件 (APPLICABLE DOCUMENTS)</b> .....	2	5.1.4 试样准备 (Specimen Preparation) .....	15
2.1 IPC .....	2	<b>5.2 检验分类 (Types of Inspections)</b> .....	15
2.2 联合工业标准 (Joint Industry Standards) .....	2	<b>5.3 鉴定检验 (Qualification Inspection)</b> .....	15
2.3 ASTM (美国材料与测试协会) (American Society for Testing and Materials) ..	2	5.3.1 样品尺寸 (Sample Size) .....	15
2.4 中华人民共和国国家标准 – GB (PRC National Standard – GB) .....	2	5.3.2 例行检验程序 (Inspection Routine) .....	16
2.5 国际标准化组织 (International Organization for Standards) .....	2	5.3.3 重新鉴定 (Requalification) .....	17
<b>3 术语及定义 (TERMS AND DEFINITIONS)</b> .....	3	<b>5.4 质量符合性检验 (Quality Conformance Inspection)</b> .....	17
3.1 锡渣 (Solder Dross) .....	3	5.4.1 抽样计划 (Sampling Plan) .....	17
3.2 锡渣抗氧化还原剂 (Solder Dross Reduction Chemical) .....	3	5.4.2 拒收批次 (Rejected Lots) .....	17
3.3 腐蚀 (Corrosion) .....	3	<b>5.5 性能检验 (Performance Inspection)</b> .....	17
3.4 密度 (Density) .....	3	<b>6 包装、标识、运输、贮存 (PACKAGING, LABELING, TRANSPORTATION AND STORAGE)</b> .....	18
3.5 电化学迁移 (ECM) (Electrochemical Migration (ECM)) .....	3	6.1 包装 (Packaging) .....	18
3.6 表面绝缘电阻 (SIR) (Surface Insulation Resistance (SIR)) .....	3	6.2 标识 (Labeling) .....	18
3.7 供应商 (Supplier) .....	3	6.3 运输 (Transportation) .....	18
<b>4 通用要求 (GENERAL REQUIREMENTS)</b> .....	4	6.4 贮存 (Storage) .....	18
4.1 术语、定义及缩写 (Terms, Definitions and Acronyms) .....	4	<b>图片 (Figures)</b>	
4.2 鉴定 (Qualification) .....	4	图4-1 无腐蚀实例 (Example of No Corrosion) .....	5
4.3 鉴定测试 (Qualification Testing) .....	4	图4-2 轻微腐蚀的实例 (Example of Minor Corrosion) .....	5
4.3.1 特性测试 (Characterization Testing) .....	4	图4-3 严重腐蚀实例 (Example of Major Corrosion) .....	5
4.3.2 性能测试 (Performance Testing) .....	9	图4-4 典型的润湿称量曲线 (Typical Wetting Balance Curve) .....	9
4.3.3 综合运营成本分析 (Overall Operation Cost Analysis) .....	14	<b>表格 (Tables)</b>	
4.3.4 最佳用量 (Optimal Usage) .....	14	表5-1 锡渣抗氧化还原剂的鉴定、 质量符合性及性能测试 (Qualification, Quality Conformance and Performance Testing for Solder Dross Reduction Chemicals) .....	16
<b>5 鉴定和质量保证规定 (QUALIFICATIONS AND QUALITY ASSURANCE PROVISIONS)</b> .....	14		

# 锡渣抗氧化还原剂要求

## Requirements for Solder Dross Reduction Chemicals

### 1 总则

#### 1 GENERAL

**1.1 范围** 本标准规定了添加于有铅或无铅熔融焊料表面，用以减少锡渣产生以及从锡渣中还原/分离焊料的抗氧化还原剂的通用要求。本标准可用于锡渣抗氧化还原剂的质量控制和采购用途。

**1.1 Scope** This standard prescribes general requirements for solder dross reduction chemicals intended to be used on the surface of molten solder of tin-lead or lead-free solder alloys, to reduce the generation of solder dross, as well as to recover/separate the solder from solder dross. This standard may be used for quality control and procurement purposes.

**1.2 目的** 本标准的目的是定义添加于熔融焊料表面的抗氧化还原剂的特性、功能以及鉴定、质量符合性及性能测试。标准中涉及的抗氧化还原剂包括以下形态：液态和固态（粉末）。

本标准仅适用于液态或者在有铅或无铅工艺温度下变成液态的锡渣抗氧化还原剂。

本标准中的测试要求应该仅适用于锡渣抗氧化还原剂的在线应用。离线应用锡渣抗氧化还原剂时需符合哪些指标由用户与供应商协商确定。

**1.2 Purpose** The purpose of this standard is to define the characterization, quality conformance and performance testing of solder dross reduction chemicals for application on the surface of molten solder. The states of solder dross reduction chemical materials include the following: liquid and solid (powder).

This standard is only applicable for liquid and solid powder which will change to liquid and present at working temperature of tin-lead or lead-free processes.

The purpose of this standard and the testing requirements listed in this standard should only be applied to “online” usage of solder dross reduction chemicals. The testing requirements for offline processes are as agreed between user and supplier (AABUS).

**1.3 “应当”的说明** “应当”用在本标准的任何地方都表示强制性的要求。如果有足够的信息证明是例外情况，可以考虑与“应当”要求的偏差。

“应该”及“可以”表示非强制性要求。“将”用于表达目的性的声明。为了帮助读者清晰辨认，“应当”（及“不应当”）用加粗黑体表示。

**1.3 Interpretation of Shall** “Shall,” the imperative form of the verb, is used throughout this specification whenever a requirement is intended to express a provision that is mandatory. Deviation from a “shall” requirement may be considered if sufficient data are supplied to justify the exception.

The words “should” and “may” are used whenever it is necessary to express nonmandatory provisions. “Will” is used to express a declaration of purpose.” To assist the reader, the word “shall” is presented in bold characters.