



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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## 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.