



广东安臣锡品制造有限公司

GUANGDONG ANSON SOLDER & TIN PRODUCTS MADE LTD.

产品规格承认书

SPECIFICATION FOR APPROVAL

产品名称 Product Name	无铅锡条 Lead-free Solder Bar
产品型号 Product Model	AS9930NC 【无铅波峰焊开缸料 Lead-free Wave Soldering Initial】 AS9970NC 【无铅波峰焊添加料 Lead-free Wave Soldering Additive】
制造厂商 Manufacturer	广东安臣锡品制造有限公司 GUANGDONG ANSON SOLDER & TIN PRODUCTS MADE LTD.
厂商地址 Address	广东省佛山市南海区狮山镇长虹岭工业园 Changhongling Industrial Park, Shishan, Nanhai, Foshan, Guangdong
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一、产品规格承认书概述 Overview

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二、版本信息 Version

版本编号 Series No.	v20240901a			
版本有效期 Validity Period	2024 年 9 月 1 日-2029 年 9 月 1 日			
规格书总页数 Total Pages	4 页 4 pages			
厂商签章 Signature	业务代表 Sales Director	制作 Prepared by	审核 Verified by	批准 Approved by
		钟政贤	齐书敏	冼陈列 技术总监 CTO

三、补充信息 Additional Information

1. 质量保证 Quality Assurance

我司保证所交付产品与本产品规格承认书所记载的内容一致。

We guarantee that the products delivered are in accordance with the contents recorded in this Specification.

2. 注意事项 Precautions

本产品规格承认书所包含的信息是我们认为精确的数据，仅对我司产品负责。我们对于文中数据的准确性不做明示或暗示的担保。我们拒绝承担在此信息范围之外使用指定的任何材料而引起的任何损失和损害。贵司需要对本产品规格承认书的产品进行科学验证，确保满足其自身工艺及产品要求。

The information contained in this Specification is data that we believe to be accurate and is solely responsible for our products. We make no warranties, express or implied, as to the accuracy of the data herein. We disclaim responsibility for any loss or damage arising from the use of any specified material outside the scope of this information. Your company needs to scientifically verify the products of this Specification to ensure that it meets its own process and product requirements.

3. 协议事项 Matters of Agreement

当发生本产品规格承认书未规范到的事宜时，双方应秉持诚意协商解决。

In case of matters not covered by this Specification , both parties shall negotiate in good faith.

四、 产品说明 Product Introduction

1. 概述 Overview

AS9930NC 和 AS9970NC 是专门应用在波峰炉焊接中的产品。我司产品均采用云南个旧高纯度锡为原材料，我司严格遵循欧盟 RoHs 指令，遵守 REACH 法规，以 GB/T 20422-2018、ISO9453:2014 等为成品执行标准。该两款锡条性能稳定，具体体现在锡条的金属杂质含量低，锡炉氧化渣极少，经波峰焊及回流焊润湿性好，焊点光亮饱满。

AS9930NC and AS9970NC are products specifically used in lead-free Wave Soldering process. Our products all use Yunnan Gejiu high-purity tin as the raw material. Our company strictly follows the EU RoHs directive, complies with REACH regulations, and implements standards such as GB/T 20422-2018 and ISO9453:2014 for finished products. These two tin bar products have stable performance, which is reflected in their low metal impurity content, minimal tin furnace oxidation slag, good wettability through wave soldering and reflow soldering, and bright and full solder joints.

2. 初次使用建议 Initial usage suggestion

放开缸料前，应先将锡缸内的锡渣及杂质彻底清理干净。

放开缸料后，将锡槽工作温度提升至机器温度上限值（ $280^{\circ}\text{C} \pm 10^{\circ}\text{C}$ ），时间保持 1 小时左右，待锡充分熔融后调回工作温度 $260 \pm 5^{\circ}\text{C}$ 左右，再开启循环泵搅拌 1 小时后再开始工作。正常运作过程中，锡面应维持高位，缩小锡面落差。

Before releasing AS9930NC (the Lead-free Wave Soldering Initial), the tin slag and impurities inside the tin tank should be thoroughly cleaned.

After releasing AS9930NC (the Lead-free Wave Soldering Initial), raise the working temperature of the tin tank to the upper limit of the machine temperature ($280^{\circ}\text{C} \pm 10^{\circ}\text{C}$) for about 1 hour. After the tin is fully melted, adjust the working temperature back to about $260^{\circ}\text{C} \pm 5^{\circ}\text{C}$, and then start the circulating pump for mixing for 1 hour before starting the lead-free Wave Soldering process.

During normal operation, the tin surface should be kept as high as possible and the gap between the tin surfaces should be appropriately reduced.

五、 产品资料表 Product Data Sheet

编号 No.	项目 Items	内容 Details
1	合金组成 Alloy Compositions	锡、铜 Tin、Copper
2	规格及外观 Specification & Appearance	棒条状；表面光亮均匀，无污染物 Bar shape; Bright and uniform surface, no pollutants
3	规格参数 Specification Parameter	长度：330 毫米 Length: 330mm
4	熔点 Melting Point	AS9930NC: 227℃ AS9970NC: 232℃
5	比重 Specific Gravity	AS9930NC: 7.4g/cm ³ AS9970NC: 7.3g/cm ³
6	拉伸强度 Tensile Strength	AS9930NC: 32Mpa AS9970NC: 32Mpa
7	净重量 Net Weight	净重 20kg/箱 Net weight 20kg/ box
8	用途 Application	适合自动焊接及人工焊接使用 Suitable for automatic welding and manual welding
9	储存方式 Storage	通风、干燥、防潮，且避免接触化学用品 Ventilate, dry, moisture-proof, and avoid contact with chemicals
10	使用建议 Use Suggestion	锡槽焊料成分每月检测一次，每年更换一次 The solder composition of the tin tank is tested monthly and replaced annually
11	执行标准 Executive Standard	GB/T 20422-2018； ISO9453:2014
12	符合指令及法规 Directives and Regulations	RoHS、REACH； SONY SS-00259

六、 合金组成（%） Alloy Compositions(%)

AS9930NC 【无铅波峰焊开缸料 Lead-free Wave Soldering Initial】

锡 Sn	铅 Pb	锑 Sb	铜 Cu	银 Ag	铝 Al	砷 As	铋 Bi	镉 Cd	铁 Fe	镍 Ni	锌 Zn	金 Au	铟 In
余量 Balance	<0.07	<0.1	0.5-0.9	<0.1	<0.001	<0.03	<0.1	<0.002	<0.02	0.045- 0.055	<0.001	<0.05	<0.1

AS9970NC 【无铅波峰焊添加料 Lead-free Wave Soldering Additive】

锡 Sn	铅 Pb	锑 Sb	铜 Cu	银 Ag	铝 Al	砷 As	铋 Bi	镉 Cd	铁 Fe	镍 Ni	锌 Zn	金 Au	铟 In
余量 Balance	<0.07	<0.1	<0.3	<0.1	<0.001	<0.03	<0.1	<0.002	<0.02	<0.1	<0.001	<0.05	<0.1