



东莞市云方金属制品有限公司

DONG GUAN YUN FANG METAL PRODUCTS CO., LTD
电话: 0769-81775436 81775437 传真: 0769-81775438
地址: 东莞市塘厦田心村鹿苑路 71 号唐辰工业园

无铅锡丝产品承认书

Lead-free Solder Wire Recognition

品名: 无铅锡丝 Lead-free solder wire

产品规格 Specification: Sn99.3-Cu0.7

线径 mm Diameter: 助焊剂种类 Kinds of solder flux :

说明: 无铅锡丝采用纯天然高纯度精锡为原材料配比高纯度铜, 内配精致氢化松香, 配合先进的生产设备及严谨的生产工艺, 保证了焊锡丝拥有极佳的品质和稳定性, 且产品通过了国家信息产业部专用材料质量监督检验中心和第三方检测机构 SGS, REACH 检测。本产品适用于各种手工焊接及自动焊锡机和喷枪焊接的作业。合金成份符合 ROHS(2011/65/EU)及 SONY(日本索尼) 标准。

Instructions: It shows that the wire has excellent quality and stability by using pure natural high purity Tin as raw material and high purity Cu, with refined hydrogenated rosin, combined with advanced production equipment and rigorous production technology. With RoHS and REACH certifications comply with the specified material quality supervision and detection center of the Country's Information Ministry and the 3rd detection institution.

This product is suitable for all kinds of manual welding and automatic solder machine and spray gun welding operation. The composition of the alloy is comply with the GB/T3131-2001 standard.

合金成份表: Alloy Components

元素 Element	Sn	Pb	Cd	Sb	Cu	Bi	Fe	Al	As	Ag
成分含量 (%) Component ratio	余量 allowance	<0.05	<0.002	<0.05	0.7	≤0.03	≤0.005	≤0.005	≤0.005	≤0.003

特性 Feature: 1、熔点: 227°C; Melting point

2、工作温度: 350°C-450°C; Work temperature



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3、扩展率: $\geq 85\%$; Expansion rate

4、助焊剂含量: Content of flux

优点: 外观平整, 焊点光亮, 残留物少, 流动性好, 湿润性好, 飞溅少, 烟雾少, 绝缘电阻率高

Advantage: Smooth appearance, bright soldering point, few residue, good fluidity and wettability, less smoke and highly insulation

用途: 电子, 电器, 手机, 汽车, 航天, 医疗, 军工, 灯饰及五金产品, 手饰, 变压器, 电杆, 线头, 端子等行业的 PCB 板及镀镍板, 铝基板, 不锈钢的焊接。

Usage: Widely used for soldering of PCB plate, nickel-plated plate, aluminum substrate and stainless steel of industries like electronics, electrical appliance, mobile, vehicle, aerospace, medical, military trade, lighting and hardware products, hand ornaments, transformers, electrical poles, wire and terminal.

使用注意事项: Attentions:

对于 Sn-Cu0.7 无铅锡丝, 主要用于手工焊接及自动焊锡机和喷枪焊接, 其正常使用温度为 350-450℃, 使用时先调整好烙铁温度, 作业人员配带手套, 口罩; 如要加快焊接速度可提高电烙铁温度, 主要根据焊接效果而定, 但首先要考虑被焊接的材料耐热温度。

Lead-free solder wire Sn-Cu0.7, it is mainly used for manual soldering, automatic soldering machine and spray gun, with normal work temperature 350-450 °C . The operators have to wear gloves and masks, the temperature of the iron need to be adjusted before usage. Improving the iron temperature will help to speed up the welding speed, it depends on the welding effect, the heat resistance temperature of the welded material should be considered firstly

包 装: 10 卷/箱 (普通纸箱包装) Packaging: 10 reels/carton

保质期: 12 个月 Guarantee period: 12 months



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物质安全资料表 Material Safe Data Sheet

一.制造或供应商资料: **Manufacturer or supplier data.**

制造或供应商名称: 东莞市云方金属制品有限公司 Manufacturer or supplier name: Dongguan Yunfang Metal Product Co., Ltd
地址: 东莞市塘厦田心村鹿苑路 71 号唐辰工业园 电话: 0769-81775436 81775437 传真:0769-81775438 Address: Tangchen industry No. 71, luyuan road, tianxin village, tangxia town, Dongguan City

二.供应物料名称及主要成份资料

Material name and main components data of supplier

物料名称:无铅 Sn-Cu0.7 锡线 <u>material name: lead free solder wire</u>		
材料名称 Name	CAS.NO	含量范围 (%) content range
锡 (Sn)	7440-31-5	余量 allowance
铜 (Cu)	7440-50-8	0.7
助焊剂 flux	8050-09-7	1.6-3.0%

三.相关危害状况资料: **Data of related hazards symptoms**

主要危害状况	健康危害状况: Health hazards condition 吸入: 熔融焊料温度 500 摄氏度以上时, 可能产生蒸气, 吸入后可能造成贫血、失眠、体弱无力、便秘、恶心、腹痛等; 状况严重时, 可能会对中枢神经造成影响, 甚至对生殖, 消化系统也会造成一定的影响。 皮肤接触: 高温熔融时会对皮肤造成烫伤。 食入: 表现症状为消化不良。 Health Hazards: Inhalation: When the temperature of the molten solder is above 500°C, it may produce steam, in case of breathing it, it may cause anemia, loss sight, physical weakness, constipation, nausea, abdominal pain and so on. If the condition is severe, it may cause influence on the central nervous system, even to reproduction and digestive system. Skin Contact: High temperature molten condition may cause skin burns. Eat: The symptom is dyspepsia.
	环境影响: 无 Environmental Effect: No
	特殊危害: 无 Special Hazards: No

主要症状: 眩晕、头痛、皮肤过敏等.

Mainly Symptom: Dizziness, headache, skin allergy.

四.急救方法: **First Aid Methods:**



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<p>不同危害之急救方法: 吸入: 吸入蒸气造成呼吸困难时须将患者移动到空气流通较好处.并及时送医院诊治 First aid methods for different hazards: Inhalation: when inhaling steam with difficult breath, it is necessary to move patients to well air circulation place and send to hospital at the first time.</p>
<p>皮肤接触: 用肥皂水清洗,烫伤用冷水降温后或皮肤过敏时应请医生处理 食入: 及时请医生处理. Skin Contact: Wash with soapy water, use cold water to cool down after scald, or ask a doctor for timely handle when skin allergy.</p>
<p>主要的危害状况: (同三,相关危害状况资料之健康危害状况) The Main hazards features: (The same with point 3 above,health hazard status of related hazards)</p>
<p>对急救人员之防护: 穿戴适当的保护衣物, 在通风良好的区域操作 Protection for First Aid Staff: Wear appropriate protect clothes, operation in a well ventilated area.</p>
<p>对医生之提示: 用水及香皂洗手 Tips for Doctors: Washing hands with soap</p>

五.灭火措施: Fire Extinguishing Measures:

<p>适用灭火器: 二氧化碳、化学干粉、泡沫灭火器、水。使用灭火时, 须避免高温焊料遇水喷溅造成的人员烫伤。 Suitable for extinguishers: carbon dioxide, chemical powder, foam extinguisher and water. When using fire, we must avoid scalding people caused by splashing of high temperature solder.</p>
<p>灭火时可能碰到的特殊状况: 熔融之合金在高的温度下遇水时可能会产生严重喷溅, 可能会造成人员烫伤。 Special situation may be encountered when extinguishing a fire: a molten alloy may produce severe splashing at high temperature and may cause burns to personnel.</p>
<p>消防人员之特殊防护设备: 灭火人员须穿防火衣和配戴便携式呼吸器 Special protective equipment for firefighters: firemen must wear fireproof clothes and portable respirators.</p>

六.泄漏处理方法:Leakage Treatment Method:

<p>个人注意事项: 熔融态的焊料须经冷却到常温后方可处理,避免烫伤. Personal Attentions: The molten solder must be cooled down to normal temperature, so it can avoid scalding.</p>



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环境注意事项: 泄漏物须回收. Environmental Attentions: Leaks should be recycling.

清理方法: 冷却后刮取回收. Cleaning method: After cooling, scraping and recycling.

七.安全处理与储存方法: Security Processing and Storage Methods:

处置: 作业温度不宜高于 500 摄氏度, 人员须配戴防护设备, 避免吸入蒸气、粉尘, 清扫时不宜使用干扫把及高温气体喷刷, 以免粉尘飞扬。

Disposal: The operation temperature should not be higher than 500 °C, personnel must wear protective equipment to avoid inhaling steam and dust. It is not suitable to use dry broom and high temperature gas brush when cleaning, so as to avoid dust flying.

储存: 储存时须防水, 防污染, 包装须标示危害物标识。

Storage: When stored, it must be waterproof and anti-pollution, and labels must be labeled for hazards.

八、暴露预防措施: Exposure Control Measures:

工程控制: 须设置充分的局部排气及全面换气设备, 控制暴露浓度低于时量平均容许浓度。 Engineering Control: Adequate part exhaust and full ventilation equipment must be set up, and control the exposure concentration lower than average allowance of the time.

控制参数:

八小时工作日平均容许浓度: 不溶解

短时间平均容许浓度: 不溶解

最高容许浓度: 不溶解

Control Parameters:

Average permissible concentration of eight hours working day: insolubility

Short time average permissible concentration: insolubility

Maximum permissible concentration: insolubility

个人防护设备

呼吸防护: 防尘面罩; 手部防护: 防护手套;

眼部防护: 护目镜, 洗眼器 皮肤及身体防护: 防护衣、防护鞋

Personal Protective equipment

Respiratory protection: Dust-proof surface; Hand protection: protective gloves.

Eye protection: goggles, eyewash; Skin and body protection: protective clothing and protective shoes.

卫生措施: 作业后, 饮食前应漱口, 作业中不得饮食, 抽烟, 化妆, 作业人员不可配戴隐形眼镜. Health Measures: After the operation, rinse the food before eating, do not eat, smoke and make up during operation, the workers can't wear contact lenses.

九、物理及化学物特征: Physical and Chemical Characteristics:



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物质状态: 金属固体 Material State: Metal solid	形状: 线状 Shape: Linear
颜色: 银白色 Color: Silver White	气味: 无 Smell: no
PH 值: 不适用 PH: not applicable	熔点: 227°C Melting Point
爆炸极限: 无 Limit of Explosion: no	熔解度: 不溶于水 Melting Degree: Insoluble in water
比重: (水=1): 7.29 Specific gravity: (water =1):	

十 安定性及反应性: Stability and reactivity

安定性: 安定 Stability: stable
特殊状况下可能之危害: 不适用 Possible harm under special conditions: not applicable
应避免之状况: 热、火焰、潮湿浸水 The situation should be avoided: heat, flame, wet soaking
应避免之物质: 强氧化剂、强酸、双氧水 Substances that should be avoided: strong oxidizing agent, strong acid and hydrogen peroxide.
危害分解物: 金属粉尘及蒸气 Hazardous decomposers: metal dust and steam

十一. 毒性资料: Toxicity Data

对动物毒性试验: LD50 不适用 Animal toxicity test: LD50 is not applicable
对人类的危害: 如吸入该产品的烟尘和食入产品, 可能会造成危害, 长期接触可能导致过敏 Hazards to human beings, such as inhalation of smoke and dust and food products, may cause harm, and long-term exposure may lead to allergies.

十二. 生态资料: Ecological Data

可能之环境影响/环境流布: 无影响 Possibility of environmental impact / move: no effect 土壤流布: 无影响 Soil distribution: no effect 水中流布: 无影响 Water distribution: no effect
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十三. 废弃物处置方法:

Disposal Information

废弃物处置方法: 回收, 再炼制或按废物处理法规处理. Waste disposal methods: recycling, reprocessing or disposal according to the regulations of waste disposal.
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Waste disposal methods: recycling, reprocessing or disposal according to the regulations of waste disposal.

十五. 法规资料: Legal Information

适用法规: Applicable laws and regulations:

《危险物及有害物通识规则》《事业废弃物储存清除处理方法及设施标准》

十六. 其他信息: Other Information

参考文献: 危害化学品物质资料及环保资料库

References: hazardous chemicals, material and environmental data bank.

制定日期 Formulate Date:

制表人 Table Maker:

1. 说明: 本资料仅供参考, 使用时, 请依据工艺要求自定最适合程序或控制方法以保证质量的稳定性。

The information provided only for reference. when using it, please decide the most suitable procedure or control method according to the process requirements, so as to ensure the stability of quality.