

承 认 书

ACKNOWLEDGEMENT

产 品 信 息 栏 Product Column		客 户 承 认 栏 Client Column	
产品名称 Product Name	无铅锡条 Lead-free Solder Bar	客户名称 Client Name	
产品型号 Product Model	BD-1	产品料号 Material Code	
产品规格 Specification	Sn-0.7Cu	产品规格 Specification	
联系人 Contact Person	谢壮彬	联系人 Contact Person	
联系电话 TEL.	1860 3000 610	联系电话 TEL.	

确 认 栏 Confirmation Column			承 认 栏 Acknowledgment Column		
核 准 Approved by	(盖章) Stamp		承 认 Acknowledged by	(承认印) Stamp	
递送日期 Date of Delivery	年 月 日		承认日期 Date of acknowledgment	年 月 日 (Day)/ (month) /(year)	
品保部 Quality Assurance Department	工程师 Engineer	业务部 Sales Department	工程部 Engineering Department	品质部 Quality Department	采购部 Purchase Department

产 品 介 绍 Product Introduction

一、适用范围 Scope

1.1 该承认书只适用于本公司的指定产品：无铅产品。但因应客户要求，该资料可以免费分发交付客户使用。

The acceptance is just only applicable to the designated lead-free products of the company. But according to clients requirements ,the files can be distributed to them for free. The file is suitable for any wire diameter of the same alloy composition and flux percentage.

1.2 本产品应用于环保要求严格的人工焊接和自动焊接。由高纯度原材料精制而成，在环保型电子装配工业中有广泛应用。产品执行标准：GB/T 20422-2006。

This product is applied for strict environmental requirements of manual welding and automatic welding. Refined with high purity of raw materials, and used widely in environmental electronic assembly industry. Product Executive Standard: *GB/T 20422-2006*.

二、产品信息 Product information

2.1 产品名称：无铅锡条

Product Name: Lead-free Solder Bar

2.2 产品型号：BD-1

Product Model: BD-1

2.3 合金规格：Sn-0.7Cu

Alloy Specification: Sn-0.7Cu

2.4 产品形状：固体条状

Product Shape: solid strip

2.5 产品特点 Product Characteristics

2.5.1 杂质少，高纯度。

Little impurity, high purity.

2.5.2 锡条表面均匀、光滑。

The surface of Tin Solder Bar is well-distributed and smooth.

2.5.3 锡条熔化后流动性好，润湿性佳，焊点光亮，铺展均匀。

Spread out uniformly with excellent liquidity and bright welding spot after melting of solder bar.

2.5.4 锡液面光亮，抗氧化效果好，氧化渣少。

The surface of tin liquid is bright with good anti-oxidation effects and Less oxidation slag.

2.5.5 焊后焊点电气可靠性、力学可靠性都很高。

Showing high electrical reliability and mechanical reliability of solder joint after welding.

三、化学成分 Chemical Composition

3.1. 化学组成参见下表 Chemical Composition(see the table below)


合金规格 alloy specification	化学成分 chemical compositions, wt.%								
	元素 element	锡 (Sn)	铅 (Pb)	铜 (Cu)	银 (Ag)	铋 (Sb)	镍 (Ni)	铋 (Bi)	锌 (Zn)
Sn-0.7Cu	标准 standard	余量 allowance	< 0.07	0.5-0.9	< 0.10	< 0.10	< 0.08	< 0.10	< 0.001
	元素 element	砷 (As)	镉 (Cd)	铝 (Al)	铁 (Fe)	铟 (In)	金 (Au)	其它杂质总和 Total of other impurities	
	标准 standard	< 0.03	< 0.002	< 0.001	< 0.02	< 0.10	< 0.05	< 0.2	

四、材料尺寸标准 Standard of material size

4.1 产品外观：条状

Product Appearance: Strip

4.2 产品尺寸 Product Size:

需求种类 Types needed	铸条 Casting Bar	
产品图示 Graphics	<p>①</p> 	
	<p>②</p> 	
参考尺寸 Reference dimension, mm	① 长Length (L) ×宽Width (W) ×高Height (H) (340*26.8*17.7) ±3mm	② 长 Length (L) ×宽Width (W) ×高Height (H) (330*21.3*20) ±3mm
单条重量 Weight of single bar, kg	1kg ± 0.2 kg	0.96kg ± 0.2kg

4.3 检验方法：采用数显卡尺、卡尺、直尺或其它规尺进行检验。

Test method: Tested by digital calipers, calipers, straightedges or other rulers.

五、材料性能 **Material characteristic**

5.1 材料物理特性 **Material Physical Characteristics**

合金规格 Alloy specification	熔点(℃) Melting point	比重g/cm ³ Proportion	拉伸强度 Mpa Tensile Strength	电阻率, 10 ⁻⁹ ohm. m Resistivity
Sn-0.7Cu	227	7.40	30	100~150
	热容(J/kg. ℃) Heat capacity	热导率(J/m. s. K) Heat conductivity	延伸率(%) Ductility	
	220	64	45	

六、包装方法 **Packaging Methods**

6.1 外包装：无铅环保专用箱。表面印有“环保无铅锡条”

Package outside: Lead-free boxes used with the words of *Lead-free Solder Bar*

6.2 重量组成 **Weight composition**



锡条形状 Shape of Solder Bar	纸箱尺寸, mm Size of Carton	每箱净重, kg Net weight/box	数量, pcs Quantity	每箱误差, g Error/box
✓ 铸条 Casting Bar	(366×140×75) ±2mm	20	20	±50 g
✓ 铸条 Depression Bar	(360×180×68) ±2mm	20	22	±50 g

七、产品保存与产品管理 **Storage and Management of product**

7.1 产品保存 Product Storage

贮存于 0~40℃，85%RH 以下环境，避免直接放置于地面，置于干燥处。与酸性介质接触或储存环境湿度过高将使焊料表面失去金属光泽。保存期限 2 年。

Indoor temperature 0~40℃, with relative humidity below 85%RH. Please place it in somewhere dry, do not place it on the floor directly, metallic luster of solder will lose while contacting with acid medium or storing in a excessive- high humidity environment, and two-year storage life demanded.

7.2 产品管理 Product Management

焊料切割和打磨操作时避免吸入灰尘。产品使用时应穿戴防护用品避免与眼睛、皮肤及衣服接触，以防 烧伤。保持使用环境的良好通风。

Avoid breathing vapor produced by solder heating of metal. Avoid dust inhaled while the cutting or polishing of solder is on. Protective equipment should be dressed to prevent to be out of burn and scald without the contact with eyes , skin and clothes directly. Keep well-ventilated at workplace.Keep well-ventilated for work environment.

八、品质保证 **Quality Assurance**

8.1 品质保证流程 Procedure of Quality Assurance

进料检验→熔炉（成分检验）→注模检验（外观检验）→包装检验→成品检验
Incoming Quality Control(IQC)→Smelting furnace(Alloy composition test) →Injection molding test(Appearance test) →Extruding (Extrusion machine) → coding (coding machine) →Packaging test →Finished products test

8.2 客户投诉流程 Procedure of Clients Complaints

客户投诉→业务助理→品保部→改善方案→业务代表→回复客户

Clients complaints→Sales assistant→Quality Assurance Department→Improvement project→Business representative→Responds to clients

8.3 质量证明文件 Quality Proof Certification

8.3.1 第三方检测报告，如 SGS等检测报告（每年检测一次）

Detection report of the third party, such as SGS and so on. (Test once a year);

8.3.2 出货检验报告（视客户需求提供）

Outgoing Inspection Report (according to the needs of customer requirements).

8.4 质量执行标准 Implementing Standard of Quality

国家标准 GB/T 20422-2006。

National Standard of GB/T 20422-2006

九、法规资料 Regulation Information

- 9.1 本公司声明产品符合欧盟 RoHS2.0 指令、REACH 法规与中华人民共和国国家环保法律和法规。

The company confirms that product applies to the instruction of *Europe Union RoHS2.0*, the regulation of *REACH* and the state environmental protection law and regulations of the *People's Republic of China*.

- 9.2 若本公司产品资料有变更时，将依照相关条例及时通知客户。

The company will inform clients at once in accordance with related disciplines as files of product change.

十、产品安全性和残留处理 Product safety and Residue treatment

10.1 产品安全性 Product safety

无铅锡条是一种环保型，稳定性好的产品，操作时必须注意锡炉的温度，焊锡效果稳定。因无铅锡条在日常的使用过程中与助剂焊配套使用，故会产生一定量的分解及反应后的烟雾，这些烟雾，应充分被抽走，建议作业者佩戴防护用品。

Lead-free Solder Bar is such a product which is environment-friendly with good stability. Please pay attention to the temperature of solder machine while operating, and the effect of solder is stable. As solder used with flux in the daily use progress, smoke produced by the decomposition and reaction of a certain amount of solder wire should be withdrawn thoroughly. Recommend that operators dress in protective equipment.

10.2 残留处理 Residue treatment

焊点周围的残留物是否清洗，要根据使用的液体助焊剂和所生产的产品性能要求而定。如需要清洗，建议使用配套清洗剂，尽量降低产品出现不良的机会。

According to the liquid flux used and the requirements of product properties, we can make a decision whether the residue around the welding spot cleaned or not. In order to reduce the opportunity of poor quality products, matched detergent recommended to use.

十一、产品使用参数及建议 Use Parameter and Suggestion of Product

- 11.1 适用于手工炉或波峰炉作业。

Be suitable for the operation of manual machine or wave-soldering machine.

- 11.2 建议锡炉温度实际测量温度范围在 $270 \pm 5^{\circ}\text{C}$ 。

It is recommended that the actual measuring temperature range of soldering iron tip is $270 \pm 5^{\circ}\text{C}$.

物质安全资料表 (MSDS)

Material Safety Date Sheet

一、产品和公司说明 Instruction of Product and Company

产品名称 Product Name	无铅锡条 Lead-free Solder Bar		
产品代号 Product code	BD-1		
产品成分 Product composition	Sn-0.7Cu		
产品类型 Product Type	固态 solid		
供 应 商 Supplier	深圳市宝达锡业有限公司 SHENZHEN CITY BAO DA TIN CO.,LTD		
地 址 Address	中国深圳市宝安区松岗街道沙浦一村蒙拓励路8号 No. 8, Mengtuoli Road, Shapuyi Village, Songgang Street, Bao'an District, Shenzhen, China		
联系电话 TEL.	0769-2301 1112	传真 FAX.	0769-2335 5360

二、产品成分/数据 Product Composition/Data

产品正式名称 Official Name	无铅锡条 Lead-free Solder Bar				
物质化学类别 Material Chemical Types	焊料类 Solder				
成分 Composition	CAS #	百分含量 Percent contents (Wt.%)	OSHA PEL (mg/m ³)	TLV-TWA (mg/m ³)	TLV-STEL (mg/m ³)
锡(Sn)	7440-31-5	余量 allowance	2.0	2.0	N/A
铜(Cu)	7440-50-8	0.5-0.9	0.1	0.2	N/A
CAS:(Chemical Abstract Index)化学文摘索引; OSHA(The Occupation Safety and Heath Agency): 美国职业安全健康署; PEL(Permissible Exposure Limits): 允许暴露限度; TLV(Threshold limited Value): 阈限值; TWA(Time Weighted Average): 时间积累平均值; STEL(Short Term Exposure Limit): 短期暴露限值.					

三、危险说明 Hazard Declaration

紧急情况 Emergence	高温焊料可能灼伤眼睛和皮肤。焊接过程中所产生烟雾对眼睛和呼吸系统会产生刺激作用。 The eyes and skin may be burnt by the high temperature solder. Stimulation to eyes and respiratory system can be made by Smoke produced by welding process.
主要途径 Main routes	<input type="checkbox"/> 皮肤 (Skin) <input type="checkbox"/> 食入 (Ingestion) <input checked="" type="checkbox"/> 吸入 (Inhalation) <input checked="" type="checkbox"/> 眼睛 (Eye)
影响对象 Objects affected	不适用。 Not suitable.
潜在的健康效应（短期接触） Potential health effects (Short-term contact)	
皮肤 For Skin	可能使皮肤有轻微的过敏现象。高温熔融焊料可灼伤皮肤。 The eyes and skin may be burnt by the high temperature solder. Stimulation to eyes and respiratory system can be made by Smoke produced by welding process.
眼睛 For Eyes	可能会对眼睛有暂时的轻微刺激性。 Slight irritation may occur temporarily to eyes.
食入 Ingestion	通常认为是无毒的。大量食入可能会引起胃肠紊乱。 It is generally regarded as non-toxic. Gastrointestinal dysfunction will be caused with a great amount of ingestion.
吸入 Inhalation	使用过程中助焊剂所产生的烟雾可能影响黏膜及呼吸系统。 Smoke produced by the flux may affects mucous membranes and respiratory system.
皮肤吸收 Skin absorption	不大可能。 Less likely to occur.
潜在的健康效应（长期接触）：不适用。 Potential health effects (Long-term contact): Not suitable.	

四、急救措施 Emergence Treatments

眼 睛 For Eyes	烫伤眼睛时请用大量清水冲洗并及时就医。 Eye burnt, please wash them with plenty of water and go to see a doctor immediately.
皮 肤 For Skin	皮肤灼伤马上用凉水冲洗。 Skin burnt, please wash it with cold water at once.
吸 入 Ingestion	呼吸新鲜空气。不能呼吸时给予人工呼吸。呼吸困难时供氧辅助呼吸。 Breathe in the fresh air. Artificial respiration should be given when there is any breathing, and oxygen should be supplied when breathe difficultly.
食 入 Inhalation	如被吞食，寻求医疗协助。除非在医务人员的指导下，否则不可催吐。 If swallowed, please ask for medical assist. Emetic must be taken with guidance of medical staff.
医生注意事项：无特别解毒剂。应给予看护。医生需根据病人的反应作出判断，给予治疗。 Notes to doctors : No special antidote. Nursing should be given. Treatments should be given on the basic of patients' reaction.	

五、防火措施 Fire Precaution

可燃性 combustibility	<input type="checkbox"/> 可燃 combustible <input checked="" type="checkbox"/> 不可燃 non-combustible	应避免条件 Conditions avoided	无。 None.
闪点 Flash point	不详。 Unknown.	自燃温度 Autoignition temperature	不详。 Unknown.
燃烧极限 Combustion Limits	不详。 Unknown.	灭火介质 Extinguishing media	<input type="checkbox"/> 水 Water <input type="checkbox"/> 二氧化碳 CO ₂ <input type="checkbox"/> 泡沫 Foam <input checked="" type="checkbox"/> 灭火干粉 Fire fighting powder
危险的燃烧产物 Hazardous combustion products	金属粉尘、蒸气 Metal dust,vapor	常态分解 Normal Decomposition	<input type="checkbox"/> 可分解 decomposable <input checked="" type="checkbox"/> 不可分解 indecomposable
爆炸的可能性 The possibility of explosion	加热、冲击、火花、明火条件下一般不会产生爆炸。 Explosion will not happen with the conditions of heat、 impact、 spark and open fire.		
灭火指示 Instructions of fire-extinguishing	无。 None.		

六、意外泄漏防护措施 Protective measures of accidental leak

个人防护 Personal Protection	避免和皮肤、眼睛接触，彻底通风，不可呼吸蒸气，杜绝明火，隔离火源，禁止吸烟， 避免产生火花，撤离非有关人员，无人身危险时，关闭泄漏。 Avoid the contacts with skin and eyes ,ventilate the area thoroughly, do not breathe in vapor, stop the open fire, isolate the source of fire, no smoking, avoid the spark producing, withdraw the irrelevant person, shut off the leak with no personal risk.
环境防范 Environmental precaution	防止污染土壤和水，用砂，土防止扩散或进入下水沟，江河。 To prevent the contamination of soil and water, the diffusion and permeation of gutter and river with sand and soil.
熔融焊料 Molten solder	待其冷却至室温，再加以回收利用。回收过程注意避免吸入烟雾。 Recycling when its cool to indoor temperature, please avoid smoke-breathing during the recycling progress.

七、使用和储存 Use and Storage

使用 Use	<p>焊料加热时避免吸入金属蒸气。焊料切割和打磨操作时避免吸入灰尘。产品使用时应穿戴防护用品避免与眼睛、皮肤及衣服接触，以防烧烫伤。保持使用环境的良好通风。</p> <p>Avoid breathing vapor produced by solder heating of metal. Avoid dust Avoid breathing the dust while the cutting and polishing of solder is on. Protective equipment should be dressed to prevent to be out of burn and scald without the contact with eyes , skin and clothes directly. Keep well-ventilated at workplace.</p>		
储存 Storage	<p>注意通风。置于干燥处。与酸性介质接触或储存环境湿度过高将使焊料表面失去金属光泽。</p> <p>Pay attention to ventilation, put in a dry place, the surface of solder will lose metallic luster with the contact of acidic medium and high environmental humidity storage.</p>		
储存温度 Storage Temperature	<p>0~40℃，相对湿度 85%RH 以下。</p> <p>0~40℃，relatively humidity<=85%RH.</p>		
产品转移 Production transfer	无。 None.	器材 Equipment	无。 None.

八、接触控制与个人防护 Contact Control and Personal Protection

工程控制 Engineering Control	<p>在大多数情况下，提供良好的抽风即可。控制室内的温度和干燥度达到要求。</p> <p>Good ventilation is necessary in most instances. Temperature and dryness in the room should meet the requirements.</p>
个人防护措施 Personal protective measures	
呼吸系统保护 Respiratory protection	<p>通风不好时，配戴全面罩呼吸器。</p> <p>Wear full-face respirator when it comes to ill ventilation.</p>
手保护 Hands protection	<p>胶手套或布手套。</p> <p>Rubber or fabric gloves.</p>
眼睛保护 Eyes protection	<p>安全防护眼镜。</p> <p>Safety glasses.</p>
身体保护 Body protection	<p>工作服。</p> <p>Overalls, chemical resistant safety shoes.</p>
个人卫生习惯 Personal hygienic habits	<p>操作化学物品或含铅焊料以后应彻底洗手。</p> <p>Wash hands thoroughly after operating chemicals or leaded solder.</p>

九、物理与化学性质 Physical and Chemical Properties

外观 (20℃) Appearance	固体 solid	比重 (水=1 at 25℃) Proportion(water=1 at 25℃)	7.40g/cm ³
熔点 (℃) Melting Point	227℃	沸点 (760 mm Hg) Boiling point	不适用。 Inapplicable.
蒸发压 (mm Hg at 20℃) Vapor Pressure	无建立。 Unfounded.	挥发速度 Volatile speed	0%
蒸发密度 (air=1) Evaporation density	不适用。 Inapplicable.	挥发体积百分比 Volatile Volume Percentage	0%
水中溶解度 Solubility in the water	0	挥发性有机物 Volatile Organic Compound	不适用。 Inapplicable.
PH	不适用。 Inapplicable.	气味 Smell	无建立。 unfounded.
凝固点 (760 mm Hg) Condensation point,	不适用。 Inapplicable.	W/O 分布系数 distribution coefficient	无建立。 unfounded.
颜色及气味 Color and Smell	银白色, 无味。 Silvery, tasteless.		

十、稳定性/反应性 Stability and Reactivity

化学稳定性 Chemical stability	在一般温度下稳定。 Stable under the general temperature.
应避免情况 Condition avoided	热、火焰、潮湿、浸水。 heat, fire, wet, water.
与其它材料不相容性 Incompatible materials	强酸、强氧化性介质。 Strong acid and oxidizing medium.
有毒的分解产物 Toxic decomposition product	不适用。 Inapplicable.
腐蚀性 Corrosivity	无。 None.

十一、毒性数据 Data of Toxicity

急性口服毒性 Acute oral toxicity	低毒性, LD50 > 2000mg/kg。 Low toxicity, LD50 > 2000mg/kg.		
急性皮肤毒性 Acute skin toxicity	低毒性, LD50 > 2000mg/kg。 Low toxicity, LD50 > 2000mg/kg.		
急性吸入毒性 Acute inhalation toxicity	低毒性, LD50 > 5mg/L。 Low toxicity, LD50 > 5mg/L.		
皮肤刺激性 Skin irritation	轻微刺激性。 Mild irritation.	眼睛刺激性 Eye irritation	有刺激。 Irritant.
皮肤过敏 Skin allergy	局部过敏。 Local allergy.	重复剂量毒性 Repetitive dose toxicity	反复接触不致引起明显毒性反应。 No distinct toxic reaction on repetitive contacts .
致突变性 Mutagenicity	无。 None.	致癌性 Carcinogenicity	无。 None.
致突变性对人的影响 The impact of mutability on people: 长期/反复接触能引致皮肤脂致皮炎, 眼睛和呼吸系统刺激, 麻痹。 Prolonged/repeated exposure can lead to dermatitis, irritation of the eyes and respiratory system, and paralysis.			

十二、处理事项预防 Prevention of Issues

处理产品或容器之前参照第 7 部分。 With refer to Part 7 before handling with products or containers.	
废弃物处理 Waste disposal	尽可能回收或循环使用。不可倒入污水道, 地方或其他任何水体。 Recycling or circulative using as much as possible. Do not pour into sewage or other water bodies.
产品处理 Product handling	尽可能回收或循环使用。 Recycling or circulative using as much as possible.
地方法规 Local regulations	上述所推荐的方法适合安全处理, 但是地方法规可能更严格, 必须遵照地方法规执行。 The methods recommended are suitable for safety handling, however, we should implement with the local regulations, which may be stricter.

十三、生态数据 Ecological Data

生物分解能力 Biodegradable ability	无建立相关资料。 No files founded.
评定根据 Judged reason	根据构成分子资料及类似物质的生态毒性而得。 According to the analogue ecological toxicity,containing of the molecular data.
流动性 Liquidity	如果液态产品大量流入土壤，可渗透深层并污染地下水。 Deep percolation and pollution of groundwater will be made by the soil with influx of the plenty of liquid products .
生物累积 Bioaccumulation	生物累积不明显。 Not obvious.
对鱼急性毒性 Acute toxicity to fish	无毒，LD/EC/IC50 > 1000mg/L。 Non-toxic, LD/EC/IC50 > 1000mg/L.
对无椎动物急性毒性 Acute toxicity to invertebrate	无毒，LC/EC/IC50 > 1000mg/L。 Non-toxic, LD/EC/IC50 > 1000mg/L.
对藻类急性毒性 Acute toxicity to algae	预计无毒，LC/EC/IC50 > 1000mg/L。 No toxicity expected, LC/EC/IC50 > 1000mg/L.
对细菌急性毒性 Acute toxicity to bacteria	无毒，LC/EC/IC50 > 1000mg/L。 Non-toxic, LC/EC/IC50 > 1000mg/L.
污水处理 Sewage treatment	无毒，LC/EC/IC50 > 1000mg/L。 Non-toxic, LC/EC/IC50 > 1000mg/L.
其它 Others	该产品不可能对水生物造成重大危害。 No significant harm to aquatic organism for the products.

十四、运输数据 Data of transportation

美国运输部 DOT United States Department of transportation	非 DOT 限制材料。如需要 DOT 法规资料，可参阅运输法规。 Not the restricted materials of DOT. Please see also Transportation Regulation if the Regulation Information of DOT is needed.
欧洲 ADR/RID Europe ADR/RID	非 ADR 限制材料。如需要 ADR 法规资料，可参阅运输法规。 Not the restricted materials of ADR. Please see also Transportation Regulation if the Regulation Information of DOT is needed.
加拿大 TDG Canada TDG	非 TDG 限制材料。如需要 TDG 法规资料，可参阅运输法规。 Not the restricted materials of TDG. Please see also Transportation Regulation if the Regulation Information of TDG is needed.

十五、法规资料 Regulation Information

1) EC 危险分类用语 EC Hazard Classification Terms	2) EC 安全用语 EC Safety Terms
(R36/37) 刺激眼睛及呼吸系统 Irritation to eyes and respiratory system (R10)高度易燃 Highly flammable (R20/R21) 吸入及接触皮肤都有危险 Be dangerous to inhalation or contacts with skin (R38) 对皮肤有刺激性 Irritation to skin	(S9) 容器存放在通风良好处 Containers stored in the well-ventilated area (S16) 远离火源 - 禁止吸烟 Keep away from the source of fire-No smoking (S24/25) 避免接触皮肤和眼睛 Avoid contacts with skin and eyes (S33) 对静电和放电要采取预防措施 Preventive measures should be taken for the static electricity and discharge (S36) 穿着适当的劳防衣物 Protective equipment should be dresses appropriately (S43A) 万一发生火灾, 使用沙, 泥土, 化学粉末或泡沫灭火 Sand, soil, chemical powder or foam should be used in case fire hazard happened

十六、其它资料 Other Information

参考文献 Reference	——	HMIS 等级 HMIS level	健康:0 可燃性:0 反应:0 个人保护:X Health:0 Combustibility:0 Reaction:0 Personal protection:X
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