



AOKI PRODUCT INFORMATION

台鑑：

納入仕様書

品名：Pure Tin Anode Ball

型號：No. PTB L (Pb≤50ppm)

客户确认书
受领印栏

经销商：

青木科研有限公司

香港办事处：

香港新界屯門新益里3號,通明工業大廈地下

电话：(852) 2498-9313

传真：(852) 2498-9692

深圳办事处：

中國廣東省深圳市平湖鎮平湖供銷社工業園

电话：(755) 28455086 傳真(755)28453518

生产商：

青木科研有限公司

地址：

香港新界屯門新益里3號,通明

工業大廈地下

中國廣東省深圳市平湖鎮平湖

供銷社工業園

日期： 2006年 01月 01日

判定	記錄	承認

Data Sheet No. ALL-SD-50
Issued 2005.05.01
Revision Date 2006.1.1





AOKI PRODUCT INFORMATION

PURE TIN ANODE BALL

PTB L-50
(Pb \leq 50ppm)

Metal

Composition

Sn. 99.95% min.

**Date Sheet and
Manufacturing Standard**

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AOKI PRODUCT INFORMATION

Pure Tin Anode Ball Specification

Manufacturing Standard	PTL L-50
Metal Composition	Sn 99.95% min.
Element	Specification
Sn. Tin	99.95% min.
Pb. Lead	≤0.005%
Sb. Antimony	≤0.010%
Cu. Copper	≤0.005%
Bi. Bismuth	≤0.020%
As. Arsenic	≤0.01%
Fe. Iron	≤0.010%
Cd. Cadmium	≤0.001%
Ni. Nickel	≤0.004%
Au. Gold	≤0.001%
Al. Aluminum	≤0.001%
In. Indium	≤0.001%
Zn. Zinc	≤0.001%
Ag. Silver	≤0.001%
Others	≤0.050%
Specific Gravity	Approx. 8.408
Melting Temperature °C	Approx. 215~250
Tensile Strength (kgf/mm)	5.4
Elongation %	33
Time for Wetting (Sec)	0.8
Standard Packing	20 Kgs. per box
Store Time	One Year

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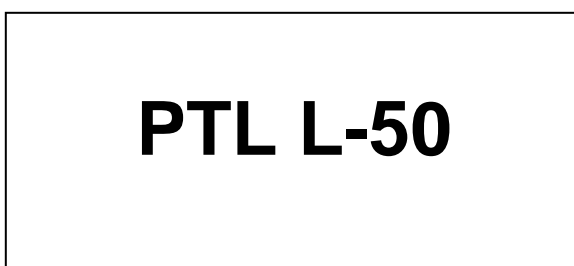
AOKI PRODUCT INFORMATION

Pure Tin Half Ball Specification

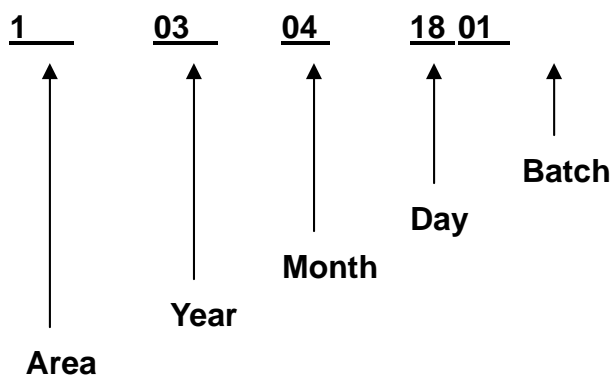
Manufacturing Standard

PTL L-50

Labeling Symbol



Manufacturing Lot Number



1 = China

Emty = Hong Kong

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AOKI PRODUCT INFORMATION

Pure Tin Half Ball Specification

Manufacturing Standard

PTL L-50

Process Quality Control for Pure Tin & Solder Products Flow Chat

Flow Chat	Item Controlled	Specification
<p>RAW MATERIALS</p> <p>↓</p> <p>QC 1</p> <p>↓</p> <p>Mix-Met</p> <p>↓</p> <p>QC 2</p> <p>↓</p> <p>BAR CASTING</p> <p>↓</p> <p>QC 3</p> <p>↓</p> <p>Lot No.:</p> <p>↓</p> <p>Packing</p>	<p>Electronic Equipment used</p> <ol style="list-style-type: none"> Analytical balance for density A.A. spectrophotometer for impurities & AA tests Arc-spark optical emission Spectrophotometer 	<p>JIS K 0116:1995</p> <p>JIS Z 3901:1990</p>
	<p>QC 1</p> <p>RAW MATERIALS :</p> <p>Tin 99.95% min.</p>	<p>JIS K 0116:1995</p> <p>JIS Z 3901:1990</p>
	<p>Solder Production</p> <p>Pure Tin Half Ball</p>	<p>Work Instructions</p> <p>ALL-AA-001</p> <p>ALL-AA-002</p> <p>ALL-AA-007</p>
	<p>QC 2</p> <p>1. Density of Solder</p>	<p>1. JIS Z 3901:1990</p>
	<p>QC 2</p> <p>2. Lead content in</p> <p>Pure Tin Half Ball: 0.005% max</p>	<p>2. JIS K 0116:1995</p> <p>JIS Z 3901:1990</p>
	<p>Ball Casting</p>	<p>Work Instructions</p> <p>ALL-LF-SB-C-001</p>
	<p>QC 3</p> <p>Density of Solder</p>	<p>JIS Z 3901:1990</p>
	<p>Lot No.</p>	<p>Area/year/month/day/batch</p>
<p>Packing</p>	<p>20 Kg per box</p>	

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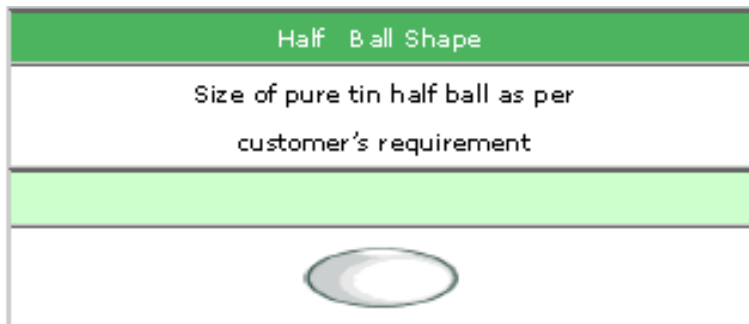
Pure Tin Half Ball Specification

Manufacturing Standard

PTL L-50

Marking / Drawing

Presentation on solder surface: Pure Tin Anode Ball



Manufacture's name

AOKI LABORATORIES LTD.

G/F., Tung Ming Industrial Bldg.,

No.3 San Yick Lane, Tuen Mun,

N.T. Hong Kong

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AOKI PRODUCT INFORMATION

Material Safety Data Sheet

Identity (Trade Name As Used On Label)

PURE TIN ANODE BALL NO. PTL L-50

Manufacturer AOKI LABORATORIES LTD		MSDS Number ALL-SD-50	
Address G/F.,TUNG MING IND. BLDG.,		Model Number PURE TIN ANODE BALL	
		Date Prepared 01 January 2006	Revision 1.0
NO.3,SAN YICK LANE,, TUEN MUN, N.T. H.K.		Issued 01 January 2006	
Phone Number (For Information) 852-2498-9313	Fax 852-2498-9692	Prepared by n. STANLEY CHAN	
Emergency Phone Number 852-2498-9313	Web-site www.aokilab.com	Note : Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.	

Section 1 – MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS – Chemical Name & Common Names (Hazardous Components !% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Solder Alloy				
Tin	99,95			
Lead	0.005			
Others	0.045			
Non – Hazardous Ingredients				
TOTAL	100			

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Section 2 – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	N.A.	Specific Gravity (H ₂ O) = 1	Approx. 8.408
Vapor Pressure (mm Hg and Temperature)	<0 Pa (20°C)	Melting Point	215~250°C
Vapor Density (Air = 1)	N.A.	Evaporation Rate (Butylacetate = 1)	N.I.
Solubility In Water	N.A.	Water Reactive	N.A.
Appearance And Order			
		Silver Colored Pure Tin Bar	

Section 3 – fire and explosion hazard data

Flash Point and Method Used	N.I.	Auto – Ignition Temperature	N.I.	Flammability Limits in Air % by Volume	N.I.	LEL	N.I.	UEL	N.I.
Extinguisher Media									
N.A.									
Special Fire Fighting Procedures									
Wear self – contained breathing apparatus (SCBA) and complete personal protective Equipment when in potential exposure to vapors or combustion products.									
Unusual Fire and Explosion Hazards									
When heated the product emits toxic fumes.									

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SECTION 4 – REACTIVITY HAZARD DATA PURE TIN HALF BALL

STABILITY

- Stable
 Unstable

Conditions

To Avoid High temperature

Incompatibility

(Materials to Avoid) N.I.

Hazardous

Decomposition Products Vapor fume of tin .

Hazardous Polymerization

- May Occur
 Will Not Occur

Conditions

To Avoid High Temperature

SECTION 5 – HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY

- inhalation
 Skin Absorption
 Ingestion
 Not hazardous

CARCINOGEN NTP OSHA
LISTED IN IARC Monograph Not listed

HEALTH HAZARDS

Acute N.I.
Chronic N.I.

Signs and Symptoms

Of Exposure Abdominal discomfort or pain.

Medical Conditions

Generally Aggravated by Exposure N.I.

EMERGENCY FIRST AID Seek medical assistance. For further treatment, observation and support if necessary.

Eye Contact Immediately flush eyes with water for 15 min minimum, and seek medical advice.

Skin Contact Immediately flush skin with water.

Inhalation Remove the patient to fresh air, seek medical advice.

Ingestion Immediately seek medical advice.

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AOKI PRODUCT INFORMATION

SECTION 6 – CONTROL AND PROTECTIVE MEASURES

Respiratory Protection

(Specify Type) Safety mask for gas and dust.

Protective Gloves

Impervious rubbers

Eye Protection

Safety glasses, chemical safety goggles

VENTILATION

Local Exhaust

Mechanical (general)

Special

TO BE USED

Other (specify)

Other Protective

Clothing and Equipment

Impervious clothing, eye bath.

Hygienic Work

Practices

Wash hands after handling.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be taken if Material

Remove all sources of ignition. Sweep or shovel spilled material into clean container.

Is Spilled or Released

Dispose of in accordance with licensed waste disposal company.

Waste Disposal

Methods

Contract a licensed waste disposal company.

Precautions to be Taken

In Handling and Storage

Store in cool area away from sources of heat and ignition. Avoid direct contact with material.

Other Precautions and / or Special Hazards

NFPA

Rating* Health _____ Flammability _____ Reactivity _____ Special _____

HMIS

Rating* Health _____ Flammability _____ Reactivity _____ Personal _____

Protection

* Optional

N.I.: No Information

N.A. : Not Applicable

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RoHS Compliance Declaration 符合 RoHS 聲明書

We have read and understood Directive 2002/95/EC of the European Parliament and Council on the Restriction of the Use of Certain Hazardous Substances (RoHS Directive). The main requirement of the RoHS Directive is that from July 1st, 2006 a producer may not place new electrical and electronic equipment (EEE) in the EU market containing:

我們已閱讀並明白歐洲聯盟議會 2002/95/EC 限制電器及電子設備使用有害物質指令 (RoHS 指令)。RoHS 指令的主要要求是由 2006 年 7 月 1 日起入口商不得將以下的電器及電子設備進口到歐盟國家:

Lead, mercury, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE), in amounts exceeding 1000 ppm by weight of homogeneous material, or

鉛，水銀，六價鉻，多溴聯苯(PBB)，多溴二苯醚(PBDE)的含量超越 1000 ppm (同質物料的重量計算)或

Cadmium in amounts exceeding 100 ppm by weight of homogeneous material.

鎘含量超越 100 ppm (同質物料的重量計算)。

Upon evaluation of RoHS Directive, we hereby certify all the Lead Free Products that we deliver to our customer from the date of signing this certificate onwards will fulfill the requirements of RoHS Directive if it is stated that the products must meet the requirements of RoHS directive on the purchase orders.

經評估 RoHS 指令後，我們保證由此聲明書簽署之日起，客戶訂購單上訂購為我司的無鉛產品，我們會供應符合 RoHS 要求的指令產品給客戶

We will support the audit conducted or organized by customer when compliance of delivered products are being contested.

如果產品的符合性受到質疑，我們會接受及協助由客戶安排或執行的審核。

Authorized Supplier's Representative's Name:

公司責任人姓名：**Mr Stanley Chan**

Authorized Supplier's Representative's Title:

公司責任人職稱：**Sales & Marketing Manager**

Authorized Representative's Signature

公司責任人簽署：

陳
2006.1.1
鏗 年

Aoki Laboratories Ltd

Tel : (852) 2498 9313 Fax : (852) 2498 9692

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