

Standard Product Specification

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1 . Scope

This specifications covers the bar shaped Sn-Pb solder, Bar Solder H63A-B20, used for wiring connection and so on, of electrical and electronic parts.



2 . Standard

2 . 1 Chemical composition (Test method : STM-9)

Composition and impurities are prescribed as following tables.

Composition (mass%)	
S n	P b
63.0 ± 0.5	Balance

Impurities							
less than mass%	mass% or less						
C d	S b	C u	B i	Z n	F e	A l	A s
0.002	0.12	0.05	0.10	0.001	0.02	0.001	0.03
	A g	I n	N i	A u			
	0.03	0.02	0.01	0.005			

Date of Establish / Revision	Approval	
Revised on August, 30, 2006	Q.A. Dept.	Manufacturing Dept.
	M.Kitamuki 	S.Hashimoto 

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2 . 2 Melting temperature and specific gravity (Reference value)

Solidus line temp.	Liquidus line temp.	Specific gravity
Approx. 183	Approx. 184	Approx. 8.4

2 . 3 Appearance (Test Method : STM-1)

The surface shall be smooth and glossy uniformly. Extremely poor gloss, and adhesion of foreign matters and dirt, shall not be found.

Significant scratches, cracks, tears, and surface oxidization, shall not be found.

2 . 4 Dimension (mm)、 and unit mass

	Continuous casting	Extruding	Manual casting
Thickness	Approx. 7		Approx. 7
Width	Approx. 20		Approx. 20
Length	Approx. 430		Approx. 400
Unit mass (g)	500 ± 20		Approx. 500

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3 . Inspection Report

A inspection shall be carried out on each production lot about following item , and the Inspection Report in which result is mentioned shall be attached at the time of delivery, when requested by your company.

Chemical composition

4 . Packaging ・ Indication

4 . 1 Packaging

Individual packaging : Nil
Packaging : Carton box
Packaging unit : 40 pcs.
Net mass : 20 kg or more

4 . 2 Indication

4 . 2 . 1 Imprinting

JIS mark
Ⓢ H63A B20

4 . 2 . 2 Carton box

Product name in narrow sense
Product code
Code, shape, dimension
JIS mark
Applicable JIS
Lot No.
Net mass
Manufacturer's name
Precaution

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5 . Guarantee period

The guarantee period of this product shall be four years from the manufacturing date.

6 . Precautions for safety

Stated in the separate documents, 「Instruction Manual」 and 「Material Safety Data Sheet」 .

7 . Regulations

Stated in the separate documents, 「Instruction Manual」 and 「Material Safety Data Sheet」 .

8 . Precautions in handling, storing, and disposing

Stated in the separate documents, 「Instruction Manual」 and 「Material Safety Data Sheet」 .

9 . Others

We cannot guarantee the result of use nonconforming to or unspecified in this specification.

You are requested not to divulge to any other company or publicize any matter related to this specification.

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1 0 . Test Methods

STM-1 Appearance

Appearance shall be confirmed by visual observation as to the content specified by the applicable standard.

STM-2 Mass

Weighing shall be conducted using a weighing apparatus having a minimum graduation less than 5/10000th of the maximum weighing capacity.

STM-3 Dimensions

Measurements shall be taken using calipers stipulated in JIS B 7507, micrometer stipulated in JIS B 7502, or, any other suitable measuring apparatus.

STM-9 Chemical Composition

According to 「JIS K 0116 General rules for atomic emission spectrometry」 or to 「JIS Z 3910 Methods for Chemical Analysis of Solder」.