CHIPQUIK® SMDBI100-S-1

Datasheet revision 1.0 www.chipquik.com

Solder Shot (Bi100) 1oz (28g)

Product Highlights

Electronics Grade
Manufactured Specifically for Making High Quality Electronic Solder Alloys
Shot Format For Easy Fractional Measurement to Create Custom Solder Alloys
High Purity

Specifications

Alloy:	Bi100 (Bismuth)
Melting Point:	271.4°C (520.5°F)
Purity:	99.99+% Bismuth (4N). Conforms to all IPC J-STD-006C soldering alloy impurity levels
Packaging:	1 oz (28g) shot
Shelf Life:	Indefinite

Purity

Element	IPC J-STD-006C	ChipQuik® SMDBI100-S-1
Silver (Ag)	0.100 %	< 0.100 %
Aluminum (Al)	0.005 %	< 0.005 %
Arsenic (As)	0.030 %	< 0.030 %
Gold (Au)	0.050 %	< 0.050 %
Bismuth (Bi)	0.100 %	> 99.990 %
Cadmium (Cd)	0.002 %	< 0.002 %
Copper (Cu)	0.080 %	< 0.080 %
Iron (Fe)	0.020 %	< 0.020 %
Indium (In)	0.100 %	< 0.100 %
Nickel (Ni)	0.010 %	< 0.010 %
Lead (Pb)	0.070 %	< 0.070 %
Tin (Sn)	0.250 %	< 0.250 %
Zinc (Zn)	0.003 %	< 0.003 %
Antimony (Sb)	0.200 %	< 0.200 %

Tolerances: +/-0.100% (Composition ≤ 1.000%), +/-0.200% (1.000% < Composition ≤ 5.000%), +/-0.500% (Composition > 5.000%)

Storage and Handling

Store in a dry non-corrosive environment.

Transportation

This product has no shipping restrictions.

Test Results

Test J-STD-004 or other requirements as stated	Test Requirement	Result
Conflict Minerals Compliance	Electronic Industry Citizenship Coalition (EICC)	Compliant
REACH Compliance	Articles 33 and 67 of Regulation (EC) No 1907/2006	Compliant

Conforms to the following Industry Standards:

J-STD-006C, Amendments 1 & 2 (Solder Alloys and Fluxed/Non-Fluxed Solders):	Yes
RoHS 3 Directive (EU) 2015/863:	Yes

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Metal	Melting Point	Orderable Part Number	Size
Sn100 (Tin)	232°C (449.4°F)	SMDSN100-S-1	1 oz (28g)
		SMDSN100-S-16	1 lb (454g)
Pb100 (Lead)	327.5°C (621°F)	SMDPB100-S-1	1 oz (28g)
		SMDPB100-S-16	1 lb (454g)
In100 (Indium)	157°C (315°F)	SMDIN100-S-1	1 oz (28g)
		SMDIN100-S-16	1 lb (454g)
Bi100 (Bismuth)	271.4°C (520.5°F)	SMDBI100-S-1	1 oz (28g)
		SMDBI100-S-16	1 lb (454g)
Ag100 (Silver)	961°C (1761°F)	SMDAG100-S-0.25	0.25 oz (7g)
		SMDAG100-S-1	1 oz (28g)
Cu100 (Copper)	1084°C (1983°F)	SMDCU100-S-1	1 oz (28g)
		SMDCU100-S-16	1 lb (454g)

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