

## SACB1053 Solder Powder



### Product Description

Continuously strive towards excellent has driven Asahi to manufacturer solder powder with superior quality. Our years of manufacturing experience has enabled us to precisely control and set stringent operating parameters to produce high quality solder powder.

Our solder powder has been optimised to have an unbeatable list of benefits, some are:

- Alloy powder purity, all alloy compositions comply with J-STD-006 standard.
- Exceeding 95% sphericity shape
- Good particle size distribution
- Low surface oxygen content

### Powder Size Distribution

Powder Type	Size (µm)
Type 3	25 - 45
Type 4	20 - 38
Type 5	15 - 25
Type 6	5 - 15
Type 7	2 - 11

### Particle Shape

Exceeding 95% sphericity shape.

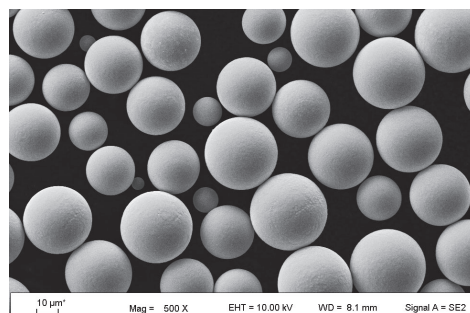


Fig. 1 Typical SEM on the Sphericity of Type 4 Solder Powder

### Specification

Item	Result
Alloy Melting Temperature	211 - 221°C
Density	7.39 g/cm <sup>3</sup>

DSC at 5°C/min  
Water Displacement Method

### Alloy Composition

Main Composition		IPC J-STD-006B (wt%)
Tin	Sn	Remainder
Copper	Cu	0.5 +/- 0.1
Silver	Ag	1.0 +/- 0.1
Bismuth	Bi	3.0 +/- 0.2
Contamination		
Aluminium	Al	0.005 max
Arsenic	As	0.03 max
Cadmium	Cd	0.002 max
Iron	Fe	0.02 max
Indium	In	0.10 max
Nickel	Ni	0.01 max
Lead	Pb	0.05 max
Antimony	Sb	0.05 max
Zinc	Zn	0.003 max

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