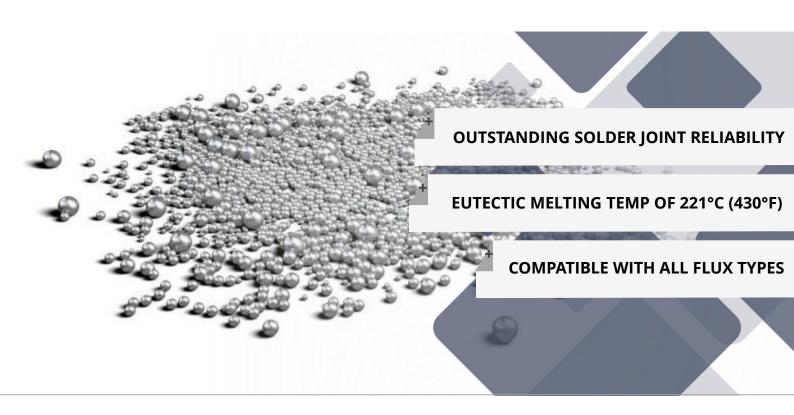


# **CAPLINQ™** Sn96.5Ag3.5 Solder Spheres

Lead Free 96.5% Tin, 3.5% Silver Alloy Solder Spheres





#### PRODUCT DESCRIPTION

Lead-free Tin/Silver alloy that contain 96.5% Tin (Sn), and 3.5% Silver (Ag)



### **PRODUCT APPLICATION**

Industry standard lead-free solder spheres for companies working with BGA, CSP, LBGA, PBGA and CBGA components.



#### **PRODUCT FEATURES**

Eutectic Sn/Ag alloy with outstanding solder joint reliability. Sn96.5Ag3.5 solder spheres are compatible with all flux types and offer excellent solder joint reliability.

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## **CAPLINQ™ Sn96.5Ag3.5 Solder Spheres**

Lead Free 96.5% Tin, 3.5% Silver Alloy Solder Spheres





#### **PRODUCT DESCRIPTION**

**CAPLINQ Sn96.5Ag3.5 Solder Spheres** are lead-free Tin/Silver alloys that contain 96.5% Tin (Sn), and 3.5% Silver (Ag) and is often written as Sn96.5Ag3.5. CAPLINQ Sn96.5Ag3.5Solder Spheres are the most widely used lead-free eutectic solder spheres and are used by companies working with BGA, CSP, LBGA, PBGA and CBGA components who have made the transition to Lead-free (Pb-free) soldering.

**CAPLINQ Sn96.5Ag3.5Solder Spheres** are compatible with all major flux brands and types. CAPLINQ Sn96.5Ag3.5solder spheres offer superior solder joint reliability and very good fatigue resistance. Because of their fast wetting speed CAPLINQ Sn96.5Ag3.5Solder Spheres provide excellent solderability.

**CAPLINQ Sn96.5Ag3.5Solder Spheres** are originally manufactured solder spheres packed into jars with inert gas (nitrogen). The lid of the jar is always sealed with a shrink-wrapped plastic wrap ensuring that the solder spheres do not oxidate in the jar.



Sn96.5Ag3.5 Solder Spheres

#### **CAPLINQ Sn96.5Ag3.5Solder Spheres** diameter tolerance:

0.075mm - 0.35mm (3-14 mils) : ±0.005mm (±0.2 mils) 0.38mm - 0.60mm (15-24 mils) : ±0.010mm (±0.4 mils) 0.65mm - 0.76mm (25-30 mils) : ±0.015mm (±0.6 mils)

#### PRODUCT APPLICATION





CAPLINQ Sn96.5Ag3.5Solder Spheres are recommended for companies who have made or want to make the transition to Pbfree soldering.

#### **▶** Applications

Designed for;

- Ball Grid Array (BGA)
- Chip Scale Package (CSP)
- Flip Chip wafer bumping

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## CAPLINQ™ Sn96.5Ag3.5 Solder Spheres

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## **PRODUCT FEATURES**

PRODUCT PROPERTIES	UNIT	VALUE
Alloy Composition	-	Sn96.5Ag3.5
<b>Eutectic Melting Point</b>	°C	221
Solidus Melting Point	°C	-
Liquidus Melting Point	°C	-
Peak Reflow Temperature	°C	245 ~ 260
Density	g/cm³	7.5
Vickers Hardness	Hv	4.5
Tensile Strength	MPa	27
Elongation	%	24
<b>Electrical Resistivity</b>	μΩ·cm	12.3
Thermal Conductivity	W/m·K	59

## ► PRODUCT FEATURES & BENEFITS:

- Lead-Free Eutectic Solder
- Melting Temp. of 221°C (430°F)
- High Silver solders have the Highest Joint Reliability
- Compatible with all Flux Types

#### **▶ PRODUCT NOMENCLATURE**

**Sn96.5:** 96.5% Tin **Ag3.5:** 3.5% Silver

#### STORAGE AND HANDLING

CAPLINQ Sn96.5Ag3.5Solder Spheres are packaged in jars of either 250k piece or 1 million pieces. The jars should be kept in a clean and dry environment. The product should be stored in sealed containers and should not be refrigerated. Probing of spheres in jars with fingers or other implements can damage the material by changing its shape or scoring the sphere surface or by contaminating the material. This could result in sphere placement difficulties. Shelf life of all solder spheres, stored in sealed jars that are not agitated, is 1 year.

For safe handling information on this product, consult the Safety Data Sheet, (SDS).

#### **DATA RANGES**

The data contained herein may be reported as a typical value and/or range values based on actual test data and are verified on a periodic basis.

The above figures are typical material properties only and are not to be used for product specification purposes. To generate a specification for this product, please contact our Quality Manager and request a copy of the current stock specification. The information and recommendations supplied in this document are believed to be accurate but no guarantee of their accuracy is made; they are for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitations any warranty of merchantability and fitness for use. It is recommended that purchasers before using this product conduct their own tests to determine whether the product is suitable for their particular purposes under their own operating conditions.



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