

## SnGe1 ANTI-OXIDATION PELLETS

Used to minimise the formation of dross in lead-free solder baths

### DESCRIPTION

Stannol SnGe1 anti-oxidation pellets are used to minimise the formation of dross in lead-free solder baths. They are made from pure tin with a germanium additive that acts as an anti-oxidation agent for addition to lead-free solder baths.

Stannol SnGe1 anti-oxidation pellets are the ideal product for lead-free ECOLOY TSC, TS and TC alloys as well as for FLOWTIN+ TC and SN100C alloys.

Anti-oxidation pellets are not recommended for use with FLOWTIN alloys or lead-containing alloys.

### APPLICATION

**For dip tinning:** Clean the solder bath surface and add 2 Stannol SnGe1 anti-oxidation pellets per kilogram of solder to the bath. The germanium consumption and thus the anti-oxidation effect vary, depending on the temperature and the state of the bath. The product is instantly effective. After the oxidation layer and dross have been removed, the solder bath surface remains free of oxidation for longer.

**For wave soldering / selective soldering:** To produce a deoxidised solder, add minimum 1 kg and maximum 1.3 kg of pellets per 100 kg of solder. Adding the product results in significant dross reduction. As the germanium concentration is gradually reduced, depending on the plant design, operating conditions and throughput rate, the process must be monitored, at least during the initial phase. The additive is most effective at a concentration between 20 and 130 ppm.

Avoid underdosing or overdosing. On request, the Stannol analytical services team will monitor your solder bath. For technical support, please contact our experienced application technicians or our laboratory staff.

The use of alloy additives might result in compounds that are patent-protected. It is the responsibility of the user of the product to prevent such compounds.

### PHYSICAL PROPERTIES AND DATA

| GENERAL PROPERTIES | SnGe1 ANTI-OXIDATION PELLETS |
|--------------------|------------------------------|
| Alloy:             | Sn99Ge1                      |
| Melting point:     | 232°C                        |
| Specific weight:   | 7.3 g/cm <sup>3</sup>        |

### PACKAGING

Stannol anti-oxidations pellets (pellet weight: 5 g) are sold in 250 g PVC containers.

## **HEALTH AND SAFETY**

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Before using please read the material safety data sheet carefully and observe the safety precautions described.

## **NOTICE**

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The above values are typical and represent no form of specification. The Data Sheet serves for information purposes. Any verbal or written advise is not binding for the company, whether such information originates from the company offices or from a sales representative. This is also in respect of any protection rights of third parties, and does not release the customer from the responsibility of verifying the products of the company for suitability of use for the intended process or purpose. Should any liability on the part of the company arise, the company will only indemnify for loss or damage to the same extent as for defects in quality.