

SPHERODON + (SLOW)



HIGH-COPPER, NON GAMMA II SPHERICAL AMALGAM ALLOY

SPHERODON+ (SLOW), containing 60% silver, is a single composition, ultra-fine spherical ternary (Ag, Sn, Cu) alloy. It is unique with its dimensional stability and resistance to corrosion. SPHERODON+ (SLOW) alloy is a NON-ZINC amalgam alloy.

SPHERODON+ (SLOW) average chemical composition:
Ag 60%, Sn 28%, Cu 12%

Proportions:

Powder: Alloy : mercury ratio 1: 0.8

Capsules

(Self Activated): 1 spill 400mg alloy 325 mg mercury
2 spill 600mg alloy 480 mg mercury
3 spill 800mg alloy 650 mg mercury

Trituration

Powder: Duomat / Dentomat: 15-20 (refer to SPECIAL NOTE no. 1)

Capsules:

Amalgamator	speed	1 spill	2 spill	3 spill
Silamat	-	4-5	5-7	7-9
Vari-Mix II	M-2	4-5	5-7	7-9
Duomat (4000rpm)	3200	5-7	5-7	7-9
Capmix Espe	-	4-5	5-7	7-9
Wig-L-Bug	High (4600)	10-12	12-16	14-16

SLOW SPEED AMALGAMATORS SHOULD NOT BE USED.

SPHERODON+(SLOW) gives satisfactory results in most modern high-speed vibrators: Not designed to be used with planetary mixers such as copernicus and capmix.

Note: The triturated amalgam should be bright and have a plastic consistency. If the amalgam is excessively plashy and wet looking and/or sets fast, decrease trituration time or amalgamator speed. A mix that appears excessively dry indicates that trituration time or amalgamator speed should be increased. Your clinical experience in obtaining a satisfactory working consistency will be the best guide to trituration times. Immediately after trituration – Firmly grasp bottom half of capsule with index finger and hold securely.

Working time:

Condense 5-7 min. Band removal, carving and burnishing 7-9 min.

Polish 24 hr. after placement.

Special note:

1. Refer to American Dental Association Publication, "Recommendations in Dental Mercury Hygiene"
2. This alloy requires less mercury than other alloys, when triturating with dentomat adjust the regulating screw for a leaner mixture.

Test Conditions

Testing to A.D.A. Specification No. 1 and B.S. 21559:1992

Alloy/Mercury ratio 1:0.8.
Weight of alloy 0.6 gr
Amalgamator Silamat
Amalgamator time 4-5 sec.

A plastic capsule of 2gr mass and approximate internal dimension – 29mm long x 8mm dia. with a stainless steel pestle 12 mm long x 3 mm dia. 0.7 gr mass should be used.

Conforms to:

ISO 1560 Dental Mercury; ISO 1556 Dental Alloy ISO 13897 Amalgam Capsules

25°C



toxic/contains mercury

WARNING:

This dental amalgam product contains mercury. The placement of a dental amalgam in a patient may increase the level of mercury in the body of the patient. The use of a rubber dam may decrease the amount of mercury absorbed by a patient during the removal or placement of an amalgam. Proper care should be taken when handling this product. Protective measures such as the wearing of gloves, using the product in a well-ventilated area, using an enclosed amalgamator when mixing the product, proper disposal of spent capsules and any excess unused amalgam, and the use of HGX, or similar-type mercury absorbing compounds in the event of spillage, should be employed. These precautionary procedures should always be used in addition to procedures recommended by your local regulatory agency and dental association.

You should check with the authorities in your country that govern the practice of dentistry and dental materials to determine what recommendations or restrictions apply to the use of dental amalgams. The following information is contained in the Health Hazard Data section of the Material Safety Data Sheet for this product. **Effects and Hazards of Eye Contact:** Irritant. **Acute Exposure:** Contact may cause irritation. Mercury is corrosive and may cause corneal injury or burns. **Chronic Exposure:** Mercury may be deposited in the lens of the eye, causing visual disturbances. **Effects and Hazards of Skin Contact:** Irritant/Sensitizer/Neurotoxin/Nephrotoxin. **Acute Exposure:** May cause redness and irritation. **Chronic Exposure:** Possible sensitization, dermatitis and swelling. Mercury may be absorbed through the skin causing urinary problems. **Effects and Hazards of Inhalation:** Irritant/Sensitizer/Neurotoxin. **Acute Exposure:** Inhalation of mercury vapor can cause cough, fever, nausea and vomiting. **Chronic Exposure:** Inhalation of high concentrations of mercury vapor over a long period may cause mercurialism. Findings are extremely variable and include tremors, salivation, stomatitis, loosening of teeth, blue lines on gums, pain and numbness in extremities.

Effects and Hazards of Ingestion: Neurotoxic/Nephrotoxic. **Acute Exposure:** May cause nausea, vomiting, kidney damage and nerve effects. **Chronic Exposure:** Symptoms include central nervous system (CNS) disorders. There is no basis for any restrictions on the use of amalgams. In rare cases, a patient may suffer a localized hypersensitivity reaction to dental amalgam. This device is restricted to be ordered by a dentist only.

Limited warranty – Limitation of Silmet's liability

Silmet's technical advice, whether verbal or in writing, is designed to assist dentists in using Silmet's product. Such advice does not expand Silmet's limited warranty or relieve the dentist of testing Silmet's products to determine their suitability for the intended uses and procedures. The dentist assumes all risk and liability for damages arising out of the improper use of Silmet's product.

In the event of a defect in material or workmanship, Silmet's liability is limited, at Silmet's option, to replacement of the defective product or part thereof, or reimbursement of the actual cost of the defective product. In order to take advantage of this limited warranty, the defective product must be returned to Silmet. In no event shall Silmet be liable for any indirect, incidental or consequential damages. Except as expressly provided above, there are no warranties by Silmet express or implied, including warranties with respect to description, quality, or fitness for a particular purpose.

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