

Cavex Amalgam Capsules for optimum safety

Cavex managed to offer completely closed amalgam capsules without any extra sealing. In this new capsule technology there are two important aspects:

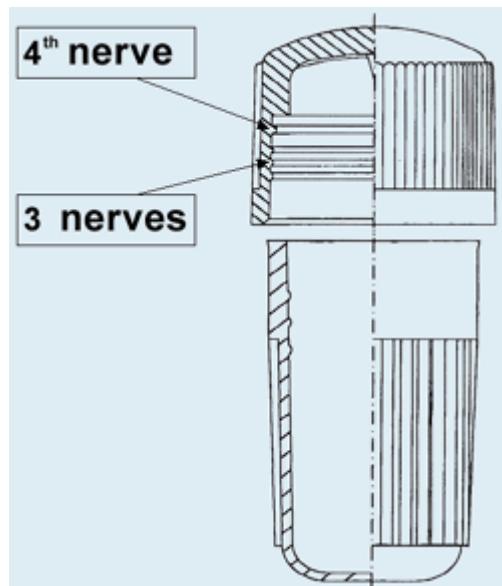
- the design of the capsule
- the choice of materials

The design of the capsule:

The new capsule forms part of the R&D program at Cavex where amalgam alloys have been produced and perfected for many decades. The shape of the inner chamber is designed to create an optimal result: perfect amalgamation with short mixing times and lowest possible mercury contents.

As we look at the capsule design in detail it shows that there are 4 nerves of different sizes, constructed inside the "top" part.

The first three nerves are there to maintain the "bottom" and "top" aligned and adjusted together. However, it is this fourth nerve that produces the closing "click" when the two parts of the capsule fit together. The "click" experience indicates that the capsule is hermetically closed and no leakage can occur.



The choice of materials:

The "top" part is made of Polypropylene (PP) that is softer and more elastic than the high dense more rigid Polyethylene (PE) "bottom" part. Due to these differences in characteristics of the two used materials, the soft "top" part will easily slide over the rigid "bottom" part to reach its final position, making this fourth nerve yield.

Furthermore, loss of mercury is impossible due to the fact that it is pre-packed in a polyethylene pillow inside the capsule.

To ensure that all these measures are effective, several tests are carried out on every produced batch by the Cavex Quality Control department. Samples are randomly selected and the leakage tests are performed according to the ISO 13897 for Dental Amalgam Capsules.

It can be concluded that the new capsules for Cavex Amalgam are in full compliance with the most recent specifications according to the ISO 13897 for Dental Amalgam capsules. It assures that dentist's worldwide are able to employ safe and reliable capsules.