



INDUSTRIA ZINGARDI srl
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INVESTMENTS FOR DENTAL USE

The dental investments can be classified into two important categories, which, in their turn, subdivide themselves in under-categories:

casting investments

casting investments for gold and precious alloys with gypsum bonding
casting investments for not precious alloys at high fusion point with phosphate bonding
casting investments for skeletal prosthesis at very high fusion point with phosphate or silica bonding

soldering investments

soldering investments for precious alloys with gypsum bonding
soldering investments for not precious alloys with gypsum bonding
soldering investments for precious and not precious alloys with phosphate bonding

The general composition of all investments is the following:

refractory material: for example, the silica as cristobalite and the quartz flours are “refractory”

bonding material: it is essential to have a bonding which allow to the investment to harden. The bondings used are the semi hydrated α gypsum and the phosphates.

additional material: they are different substances, as graphite, chlorides, powder minerals, which permit in small percentage to modify the general behaviour of the product.

According to their nature, the investments materials are supplied in the following way:

under powders to be mixed with water during the use

under powders to be mixed with a special liquid supplied by the manufacturer, to be used pure (to obtain the maximal expansion) or diluted with distilled water

under powders to be mixed with a solution obtained by a mixing of many liquids supplied by the manufacturer.

According to the international directives, for all the investments it is necessary to respect some basic parameters. The requisites are:

setting time
powder fineness
compression resistance
air setting expansion
hygroscopic setting expansion
thermic expansion
maximal temperature of the investment

The data relative to the above mentioned requisites could vary considerably according to the type of investment taken into consideration, without obstructing the parameters respect of UNI EN 27490 – ISO 7490 directive for the investments with gypsum bonding for gold alloys casting and of the upcoming ISO/DIS 11245.2/Phosphatic directive for the investments with phosphate bonding for not precious alloys with high fusion point.

All our investments are manufactured according the above mentioned norms.

We recommend to storage the product in dry and cool place.