

DRY OXIDE SYSTEM

EXCLUSIVE DENTALFARM PATENT

Dry Oxide System (D.O.S.) is an exclusive patent by Dentalfarm. The device, integrated in microblasting tanks, allows to eliminate moisture absorbed by very fine abrasives thus assuring a smooth and efficient flow. Indeed, without this system, nozzles are susceptible to clog and a steady air/abrasive flow is not assured. In addition, we must consider a less apparent but even worse problem: aluminium oxide, once moisture has been absorbed, is no more in a condition to carry out the correct pickling and degreasing of the surface. This phenomenon can cause the loss of final effect and the ceramic layer to remove. An extremely pure and dry abrasive only can definitely assure the correct pickling and bonding on metal surfaces.



MAIN FEATURES

Dry Oxide System (D.O.S.) is a device which fully eliminates the moisture commonly absorbed by very fine abrasive grains. The whole drying process is gradual since abrasives are refractory products and require lots of time to increase their temperature. For this reason, we recommend to keep the tanks always filled in, in order to have dried abrasive ready for use. Properly dried microglassbeads or fine aluminium oxides show separate grains, are easier to be mixed up with air and above all they do not loose their abrasive effect.



WORKING PRINCIPLE

The abrasive temperature is raised up by means of a low voltage electric resistance thus allowing humidity to evaporate which otherwise would cause the grains to agglomerate, the nozzles to clog steadily, resulting in a loss of pickling effect and in poor flowing of the air/abrasive mixture. To assure full efficiency and utmost performance of this system, humidity must flow out freely from the tanks. Dentalfarm abrasive tanks are airtight sealed when working only and they are pressure-released as the process is over.

BENEFITS

- **steady air/abrasive flow**
- **absolute safety** since the tanks are not kept under pressure
- **microabrasives are always dry**, smooth-running and correctly dosed
- **degreasing effect is assured**
- **low consumption of abrasive product**