

solids *Fine dosing*

The fine art of fine dosing



Accurate dispensing of alumina powders and zirconium powders for fabrication of tooth crowns and bridges

Objectives of the project:

The user, a nameful producer of ceramic crowns and bridges, was looking for feeders with high level of accuracy and short dosing time in industrial environment.

Main targets:

- Accuracy requested: +/- 0,05g
- Short dosing time < 8 sec (for 11g)
- Reliable system
- Operation 16 h/ day
- Short cleaning time, GMP conform
- Low maintenance needs



Solution :

- 3 MCPI Fine dosing Opti feeders SPA-A (for Aluminum Oxide and 2 types of Zirconium).
- Load cell resolution: 0,01g
- The ingredient is dosed in a small swiveling bowl mounted on the load cell.
- The load cell and the generator are integrated in separated stainless steel housings.
- The batch controller, integrated in the control cabinet, optimizes coarse and fine feeding with automatic tolerance control.
- The ratio between coarse / fine feeding is 1/100. This figure is a key point to reach fast dosing process and accuracy.
- The system is designed according GMP rules for fast cleaning and maintenance operations.

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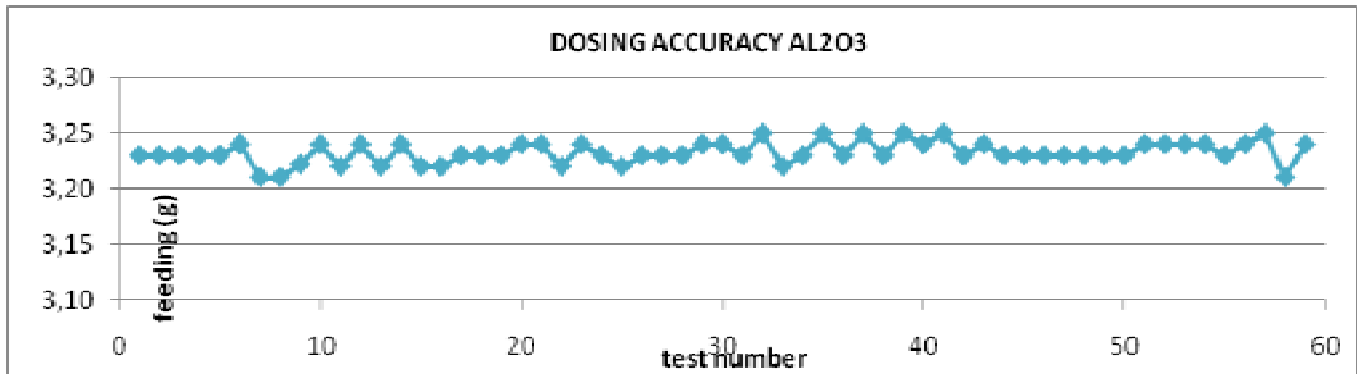


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Feeding accuracy and stability: dosing time 5 sec



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