



HIGH-PERFORMANCE CERAMICS

MICRODOSING NOZZLES

Application:

Ceramic dispenser nozzles for Microdosing

Material:

Zirconia



As the demand for more precise and reliable microdosing techniques continues to grow, the choice of materials used in microdosing equipment becomes increasingly crucial. Ceramic materials have emerged as a highly promising option due to their unique properties, which include enhanced chemical compatibility, biocompatibility, and precision.

To enhance dispensing accuracy and stability in electrical components and semiconductor production, ceramic materials are utilized. The hardness and form stability of ceramics ensure a consistent dispensing diameter, providing a reliable solution. Kyocera, with its extensive experience in producing high precision dispensing nozzles, offers an excellent alternative to metal or ruby ones. Our special production technology enables us to manufacture long needle tips up to 3 mm, allowing for the precise dispensing of materials like Ag paste in complex, highly dense structures without any interference with other components. Furthermore, our ceramic inner diameter is free from any burrs, ensuring a smooth surface condition that prevents clogging. We are capable of producing nozzles with an inner diameter as small as 0.05 mm and a thin wall thickness of only 0.015 mm, keeping shape design flexibility for necessary customizations.

By leveraging the exceptional properties of ceramics and our advanced production techniques, Kyocera delivers microdosing solutions that meet the stringent demands of various industries. Our ceramic dispensing nozzles offer unparalleled accuracy, stability, and compatibility, making them the ideal choice for microdosing applications.

- ▶ Smooth surface quality
- ▶ High form stability
- ▶ Small sizes

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