

ORAL-CARE FORMULATION R&D

Hydroxyapatite grade portfolio

Micro and nano Calcium Hydroxyapatite grades for technical screening, supplier qualification and controlled formulation trials.

CAS 1306-06-5

Micro / Nano HAp

MICRO 01

Micro HAp Extra Fine

Extra-fine micro grade for oral-care screening where a non-nano route is preferred.

DOCUMENTATION
USP-oriented

HEAVY METALS
<15 ppm

ARSENIC
<2 ppm

NANO 02

Nano HAp

Biomimetic nano grade for technical screening and nano-HAp formulation development.

BIOMIMETIC HAP
>96%

MEAN PRIMARY SIZE
Approx. 50 nm

MORPHOLOGY
Nano-rod

HEAVY METALS
<15 ppm

APPLICATION PATHWAYS

- Toothpaste and oral-care formulation R&D
- Sensitivity-oriented concepts
- Remineralization-oriented product development
- Selected dental-material screening
- Other applications reviewed case by case

EXTRA FINE NANO 03

Nano HAp Extra Fine

Nano grade with a documented secondary particle distribution for more specific screening.

BIOMIMETIC HAP
>97%

MEAN PRIMARY SIZE
Approx. 50 nm

SECONDARY D50
3-5 µm

SECONDARY D90
≤10 µm

ULTRA-PURE NANO 04

Ultra-Pure Nano HAp

Higher-purity nano grade for evaluations requiring tighter documented impurity limits.

BIOMIMETIC HAP
>98%

MEAN PRIMARY SIZE
Approx. 50 nm

HEAVY METALS
<2 ppm

ARSENIC
<0.5 ppm

QUALIFICATION PATH

- Define application and target market
- Select the likely grade
- Review current TDS, SDS and available COA
- Run customer-controlled laboratory or pilot trials
- Confirm MOQ, lead time and destination requirements

Values are screening references. Confirm every parameter against the current grade-specific TDS and COA. Suitability and finished-product performance remain subject to the customer's technical and regulatory review.