

French Process Zinc Oxide . Grade 103USPL

DESCRIPTION

Zochem's Grade 103USPL:

- Manufactured in an FDA registered food manufacturing facility.
- Produced by the French (Indirect) Process.
- Meets USP Compendium Monograph specification for zinc oxide.
- Meets GMP (Good Manufacturing Practices) 21cfr110 for Food and excipients, and IPEC/ANSI/NSF 363 for excipients.

Grade 103USPL is also available in an API (Active Pharmaceutical Ingredient) version "Grade 103USPL (API)" manufactured in an FDA registered drug establishment manufacturing facility which has been inspected by the FDA as compliant with ICH-Q7 GMP for API. The API version also meets 21cfr111 GMP for Dietary Supplements (DS). When ordering, please specify standard "Grade 103USPL" or "Grade 103USPL (API)"

Grade 103USPL offers the highest m²/g surface area (SA) available and is used where low SA is required and standard Grade 112USP is not suitable in the application.

Compendium Tests	Limit	Typical	Test Method*
Zinc Oxide (ZnO) Assay*	99.0%-100.5%	99.7 %	Titration
Arsenic (As)	6 ppm max	0 ppm	ICPorUSPMonograph
Loss on Ignition at 500°C	1.0% max	0.2 %	USP Monograph
Alkalinity	Final Solution is not red	Pass	USP Monograph
Lead (Pb)	No turbidity or precipitate	Pass	USP Monograph
Iron (Fe) & Other Heavy Metals	White precipitates are formed	Pass	USP Monograph
Carbonate & Color Solution	Clear, colorless, no effervescence	Pass	USP Monograph
Identification A (ID A)	Turns yellow when heated dissipates when cooled	Pass	USP Monograph
Identification of zinc (ID B replacement)*	Response as zinc	Pass	AA,ICP-OES, or acid insol wht precipitate

Optional Non-Compendium Tests	Typical Limit**	Nominal	Test Method
Surface Area (m ² /g)	2 – 4	7	ASTM D4315
Lead as Pb (%)*	0.001 max	0.0008	ICP or AA
Cadmium as Cd (%)	0.0003 max	0.0002	ICP or AA
Iron as Fe (%)	0.002 max	0.0003	ICP or AA
Fineness retained on 325 mesh (%)	0.02 max	0.003	ASTM D4315
Appearance	Fine white powder	Pass	Supplier

Product meets all USP monograph limits.

*Zochem test methods for ZnO Assay, arsenic (by ICP), and Identification of Zinc, have been determined suitable under actual conditions of use for product to meet USP acceptance criteria. Shelf life 18 months from date of manufacturing.

Standard Packaging: 50 lb. Kraft paper bags on 2,000 to 2,500 lb net wet. pallet, or 2,000 lb FIBC.

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