

Technical Data Sheet

Product: Zinc Oxide (ZnO) Gold Seal

Product Code: NGLD CR-4 USP 5

<u>Physical Properties</u>					
		Unit	Target	Min.	Max.
Specific Surface Area		m ² /g	4.5	4.0	5.0
Bulk Density		lb./ft ³	40	35	45
Specific Gravity			5.6	--	--
Through 325 Mesh		%	--	99.98	100
<u>Chemical Properties</u>					
		Unit		Min.	Max.
Description:	A very fine, amorphous, white or yellowish powder free from gritty particles.				Conforms
Identification:	A – When strongly heated, it assumes a yellow color that disappears on cooling.				Conforms
	B- In the presence of sodium acetate, solutions of zinc salts yield a white precipitate with hydrogen sulfide. This precipitate is insoluble in acetic acid, but is dissolved by 3N hydrochloric acid.				Conforms
Alkalinity:	If a red color is produced, not more than 0.30 ml of 0.10N hydrochloric acid is required to discharge it.				Conforms
Loss on Ignition @ 500°C		%		0	1.0
Carbonate and color solution:	No effervescence occurs and the resulting solution is clear and colorless.				Conforms
Arsenic:	Not more than 6 ppm.	(ppm)		0	6.0
Lead:	The addition of 5 drops of potassium chromate TS produces no turbidity or precipitate.				Conforms
Lead (A-A analysis)		(ppm)		0	5
Iron and heavy metals:	White precipitates are formed when potassium ferrocyanide TS is added to the first portion and when sodium sulfide TS is added to the second portion.				Conforms
Assay ZnO:		%		99.0	100.5
Cadmium Content		(ppm)		0	10
Iron (A-A analysis)		(ppm)		0	10
Copper Content:		(ppm)		0	10
Heat Loss @ 110°C:		%		0	0.07
NGLD CR-4 USP 5 is produced to comply with the most current USP requirements for zinc oxide.					
Ref: TDS ZnO-NGLD CR-4 USP 5, Version 001, Date: June 2014					

