

Technical Data Sheet

ZINC OXIDE (ZnO)

GRADE: CR-4 USP-FCC 5

G.H. CHEMICALS LTD.

PRODUITS CHIMIQUES G.H. LTÉE

1550 Brouillette St.

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Physical Properties

	Unit	Target	Min.	Max.
Specific Surface	(m ² /g)	4,5	4,0	5,0
Mean Particle Size	(µm)	0,51	0,46	0,58
Bulk Density	(lb./ft ³)	40	35	45
Specific Gravity		5,6	---	---
Through 325 Mesh	(%)	---	99,98	100

Chemical Properties

		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 3 N hydrochloric acid.		Conforms	
Alkalinity :	No red color appears		Conforms	
Loss on ignition @ 800°C :		(%)	0	1,0
Carbonate and color solution :	no effervescence occurs and the resulting solution is clear and colorless		Conforms	
Substances not precipitated by sulfide :	The weight of the residue does not exceed 5 mg		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
Cadmium Content :		(ppm)	0	3
Iron (A-A analysis) :		(ppm)	0	10
Copper Content :		(ppm)	0	10
Heat Loss @ 110 °C :		(%)	0	0,07

CR-4 USP-FCC 5 is produced to comply with the most current USP and FCC requirements for zinc oxide

TDS0022 Version 1

