

Technical Data Sheet

ZINC OXIDE (ZnO)

GRADE: CR-42 USP-FCC 1

G.H. CHEMICALS LTD.

PRODUITS CHIMIQUES G.H. LTÉE

1550 Brouillette St.

St-Hyacinthe QC

Canada J2S 7B8

Tel: 450-774-9151

Physical Properties

	Unit	Target	Min.	Max.
Specific Surface	(m ² /g)	9,0	8,0	10,0
Mean Particle Size	(um)	0,26	0,23	0,29
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 10
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-42 USP-FCC 1 is produced to comply with the most current USP and FCC requirements for zinc oxide

TDS0026 Version 1

