



R.E. Carroll, Inc.

Raw Materials • Fillers • Petroleum Products

UltraPure[®] grades meet ASTM D520 Type III Specification for Zinc Dust Pigment

UltraPure[®] GRADE ZINC DUST PRODUCT SPECIFICATIONS

DESCRIPTION	UP # 6	UP # 6 w/ Lime	UP # 4	UP # 510	UP # 515M
	(Standard)	(Standard)	(UltraFine)	(UltraFine)	(Fine)
Total Zinc (% minimum)	99.0 %	99.0 %	99.0 %	99.0 %	99.0 %
Metallic Zinc (% minimum) *	97.0 %	96.5 %	96.0 %	96.0 %	97.0 %
Iron (% maximum) **	0.002 %	0.002 %	0.002 %	0.002 %	0.002 %
Lead (% maximum) **	0.002 %	0.002 %	0.002 %	0.002 %	0.002 %
Copper (% maximum) **	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %
Cadmium (% maximum) **	0.001 %	0.001 %	0.001 %	0.001 %	0.001 %
Zinc Oxide	Balance	Balance	Balance	Balance	Balance
Average Particle Size *** (microns)	5.00 – 8.00	5.00 – 8.00	3.50 – 5.00	4.00 – 5.00	5.00 – 6.50
+ 100 mesh (150 micron) % maximum ****	0.00 %	0.00 %	0.00 %	0.00 %	0.00 %
+ 200 mesh (75 micron) % maximum	0.20 %	0.20 %	0.00 %	0.00 %	0.10 %
+ 325 mesh (45 micron) % maximum	3.00 %	3.00 %	0.20 %	0.05 %	0.30%
Specific Gravity	7.00 – 7.12	7.00 – 7.12	7.00 – 7.12	7.00 – 7.12	7.00 – 7.12
Lime (Calcium Oxide)		0.25–.50%			

Varied physical properties to those shown above are available.

ProductspecUP6,6w/Lime,4,510,515M-03,04,01

Lime (CaO) and other blending requirements are available upon request.

* ASTM Test Method D521, Test Method for Chemical Analysis of Zinc Dust, Titration method.

** ASTM Test Method E 536, Test Method for Chemical Analysis of Zinc Dust, AA Spectrophotometer.

*** ASTM Test Method B 330, Test Method for Fisher Number of Metal Powders & related compounds.

**** ASTM Test Method B 214, Test Method for Sieve Analysis of Metal Powders.

APPLICATIONS

Organic and inorganic zinc coatings
Reducing Agent
Thread compounds
Precipitating Agent
Thin film mechanical plating and galvanizing

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NOTE: Purity Zinc Metals only uses Special High Grade Zinc, which meets the SHG ASTM B6-98 specification, to produce the *UltraPure*[®] grades of zinc dust. *UltraPure*[®] grades of zinc dust are manufactured under license from Purity Zinc Metals™ a Division of North American Zinc Company.

We believe the information herein to be reliable but we assume no responsibility for its accuracy. It will be the users responsibility exclusively to determine the suitability for these grades for the product manufactured by the user.

CALCIUM CARBONATES • CLAYS • SOLVENTS • ZINC OXIDE • WAXES • ZINC DUST • PLASICIZERS • CHEMICAL SPECIALTIES
LUBRICANTS • PROCESS OILS • ALUMINA TRIHYDRATE • MAGNESIUM CARBONATE • MAGNESIUM OXIDES

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