

CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16029B10519
 Best Before: March, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	98.0 – 102.0 %	100.9
Cadmium:	0.0 – 3.0 ppm	1.3
Lead:	0.0 – 9.5 ppm	6.7
Arsenic:	0.0 – 6.0 ppm	< 6.0
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	1.0
Retained 325 mesh:	0.0 – 0.02 %	0.002
Mean Particle Size:	0.46 – 0.58 µm	0.57
Loss of Ignition:	0.0 – 1.0 %	0.09
Surface Area:	4.0 – 5.0 m ² /g	4.0

Disclaimer & Caution

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16029A10519
 Best Before: October, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	98.0 – 102.0 %	100.6
Cadmium:	0.0 – 3.0 ppm	1.1
Lead:	0.0 – 5.0 ppm	1.8
Arsenic:	0.0 – 6.0 ppm	< 6.0
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	1.6
Retained 325 mesh:	0.0 – 0.02 %	0.003
Mean Particle Size:	0.46 – 0.58 µm	0.57
Loss of Ignition:	0.0 – 1.0 %	0.15
Surface Area:	4.0 – 5.0 m ² /g	4.1

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16029A20319
 Best Before: February, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	98.0 – 102.0 %	101.7
Cadmium:	0.0 – 3.0 ppm	1.0
Lead:	0.0 – 9.5 ppm	6.5
Arsenic:	0.0 – 6.0 ppm	< 6.0
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	1.0
Retained 325 mesh:	0.0 – 0.02 %	0.004
Mean Particle Size:	0.46 – 0.58 µm	0.51
Loss of Ignition:	0.0 – 1.0 %	0.05
Surface Area:	4.0 – 5.0 m ² /g	4.5

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material

Lot No.: 16029A00119

Best Before: February, 2021

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	98.0 – 102 %	99.3
Cadmium:	0.0 – 3.0 ppm	1.0
Lead:	0.0 – 9.5 ppm	7.6
Arsenic:	0.0 – 6.0 ppm	< 6
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	3.2
Retained 325 mesh:	0.0 – 0.02 %	0.003
Mean Particle Size:	0.46 – 0.58 µm	0.53
Loss of Ignition:	0.0 – 1.0 %	0.07
Surface Area:	4.0 – 5.0 m ² /g	4.3

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16029-A47
 Best Before: November, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	98.0 – 102 %	98.2
Cadmium:	0.0 – 3.0 ppm	1.9
Lead:	0.0 – 9.5 ppm	6.7
Arsenic:	0.0 – 6.0 ppm	< 6
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	1.0
Retained 325 mesh:	0.0 – 0.02 %	0.003
Mean Particle Size:	0.46 – 0.58 µm	0.47
Loss of Ignition:	0.0 – 1.0 %	0.08
Surface Area:	4.0 – 5.0 m ² /g	4.9

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16O29-A46,B46
 Best Before: April, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	99.0 – 100.5 %	99.9
Cadmium:	0.0 – 3.0 ppm	1.0
Lead:	0.0 – 9.5 ppm	7.9
Arsenic:	0.0 – 6.0 ppm	< 6
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	1.0
Retained 325 mesh:	0.0 – 0.02 %	0.003
Mean Particle Size:	0.46 – 0.58 µm	0.52
Loss of Ignition:	0.0 – 1.0 %	0.13
Surface Area:	4.0 – 5.0 m ² /g	4.4

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16029-A45-1,B45-1
 Best Before: November, 2020

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	Complies
Assay:	99.0 – 100.5 %	Complies
Cadmium:	0.0 – 3.0 ppm	Complies
Lead:	0.0 – 9.5 ppm	Complies
Arsenic:	0.0 – 6.0 ppm	Complies
Copper:	0.0 – 10.0 ppm	Complies
Iron:	0.0 – 10.0 ppm	Complies
Retained 325 mesh:	0.0 – 0.02 %	Complies
Mean Particle Size:	0.46 – 0.58 µm	Complies
Loss of Ignition:	0.0 – 1.0 %	Complies
Surface Area:	4.0 – 5.0 m ² /g	Complies

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CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
Lot No.: 16O29-A44,B44
Best Before: June, 2019

Store in air tight containers; in a cool dry area; away from direct sunlight.

<u>Properties</u>	<u>Specifications</u>	<u>Results</u>
Appearance:	Fine white powder.	Complies
Odor:	Odorless.	Complies
Solubility:	Insoluble in water.	Complies
Bulk Density:	35.0 – 45.0 lb/ft ³	40.0
Assay:	99.0 – 100.5 %	100.0
Cadmium:	0.0 – 3.0 ppm	1.0
Lead:	0.0 – 9.5 ppm	1.0
Arsenic:	0.0 – 6.0 ppm	< 6
Copper:	0.0 – 10.0 ppm	1.0
Iron:	0.0 – 10.0 ppm	1.0
Retained 325 mesh:	0.0 – 0.02 %	0.003
Mean Particle Size:	0.46 – 0.58 µm	0.56
Loss of Ignition:	0.0 – 1.0 %	0.09
Surface Area:	4.0 – 5.0 m ² /g	4.1

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