

CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material
 Lot No.: 16029A10620
 Best Before: June, 2022

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 %	99.7
Cadmium:	0.0 – 3.0 ppm	1.0
Lead:	0.0 – 9.5 ppm	3.0
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 %	0.003
Mean Particle Size:	0.46 – 0.58 µm	0.54
Loss of Ignition:	0.0 – 1.0 %	0.07
Surface Area:	4.0 – 5.0 m ² /g	4.3

Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario.

CERTIFICATE OF ANALYSIS

Product: Zinc Oxide - Raw Material

Lot No.: 16029B105191

Best Before: March, 2022

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.: 16029A203191

Best Before: February, 2022

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.: 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

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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-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.: 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.: 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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