

501406
H3000

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Evonik Corporation - 2 Turner Place - Piscataway, NJ 08854

Harcros Chemicals
5344 E Grand Pkwy S
Baytown TX 77523

Product H2O2 31% Semiconductor Grade
217.72 KG / 480.00lbs Plastic drum
1H1
Material 99148823
Customer material no. 24514
Quantity 4 DR
Batch 88624A2901
Spec. No. 37337 / 1
Shipping Condition Cust. pickup Truck

Certificate of Analysis

Date	Dec 16, 2024
Delivery Number / Item	3011085114 / 000001
Order Number / Item	2006775418 / 000001
Date	Dec 13, 2024
Active Oxygens	
Contact Person	Heather Pettaway
Telephone	+1 (732) 981-5207
Mail	heather.pettaway@evonik.com
Customer no.	7000244621
Your purchase order	151002518
Date	Dec 13, 2024

Property	Test method	Unit	Value	Specification	
				Min.	Max.
Acidity, $\mu\text{eq/g}$		$\mu\text{eq/g}$	0.147		0.600
Aluminum (Al) ppb		ppb	4		70
Antimony, ppb		ppb	<0.03		5.00
Arsenic, ppb		ppb	<0.03		5.00
H2O2 Concentration		%(wt)	31.46	31.00	31.80
Barium, ppb		ppb	<0.01		20.000
Beryllium, ppb		ppb	<0.001		10.000
Bismuth, ppb		ppb	<0.001		20.000
Boron, ppb		ppb	0.014		10.000
Cadmium, ppb		ppb	<0.001		10.000
Calcium, ppb		ppb	1.01		50.00
Chloride, ppb		ppb	<10		200.00
Chromium (Cr) ppb		ppb	2		20

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Property	Test method	Unit	Value	Specification	
				Min.	Max.
Cobalt, ppb		ppb	0.05		10.00
Colour [APHA]			1		7
Copper, ppb		ppb	0.06		10.00
Gallium, ppb		ppb	<0.001		20.000
Germanium, ppb		ppb	<0.001		10.000
Gold, ppb		ppb	<0.001		10.00
Iron (Fe) ppb		ppb	5		50
Lead, ppb		ppb	<0.030		10.00
Lithium, ppb		ppb	<0.030		10.00
Magnesium, ppb		ppb	0.06		10.00
Manganese, ppb		ppb	0.20		10.00
Molybdenum, ppb		ppb	0.420		10.000
Nickel (Ni) ppb		ppb	2		10
Niobium, ppb		ppb	<0.001		10.000
Nitrate (NO3), ppb		ppb	55.00		1000.00
TOC ppm		ppm	4		20
Phosphate, ppb		ppb	232.00		1500.00
Potassium (K) ppb		ppb	198		400
Silicon (Si) ppb		ppb	3		100
Silver, ppb		ppb	<0.001		10.000
Sodium (Na) ppb		ppb	2		100

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Property	Test method	Unit	Value	Specification	
				Min.	Max.
Stability, 24 hour		%	99.8	98.0	100.0
Strontium, ppb		ppb	<0.030		10.00
Sulfate, ppb		ppb	<10		3000.00
Tantalum, ppb		ppb	<0.001		10.000
Thallium, ppb		ppb	<0.001		10.000
Tin (Sn) ppb		ppb	386		500
Titanium, ppb		ppb	0.02		10.00
Vanadium, ppb		ppb	0.010		10.000
Zinc, ppb		ppb	0.240		50.000
Zirconium, ppb		ppb	0.000		10.000
Ammonium, ppb		ppb	3000 ppb MAX		

*** End ***