

Hydrogen Peroxide, 30%
CMOS
(Stabilized)



Material No.: 2190-23
Batch No.: 24K0461034
Manufactured Date: 2024-10-31
Expiration Date: 2026-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (H ₂ O ₂)	30.0 - 32.0 %	31.6 %
Color (APHA)	<= 10	<5
Free Acid (µeq/g)	<= 0.2	0.1
Residue after Evaporation	<= 10 ppm	2 ppm
Ammonium (NH ₄)	<= 3 ppm	<3 ppm
Chloride (Cl)	<= 0.2 ppm	<0.0 ppm
Nitrate (NO ₃)	<= 2 ppm	<2 ppm
Phosphate (PO ₄)	<= 1 ppm	1 ppm
Sulfate (SO ₄)	<= 3 ppm	<3 ppm
Trace Impurities – Aluminum (Al)	<= 70.0 ppb	5.4 ppb
Arsenic & Antimony (as As)	<= 10.0 ppb	<10.0 ppb
Trace Impurities – Barium (Ba)	<= 20.0 ppb	<1.0 ppb
Trace Impurities – Beryllium (Be)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Bismuth (Bi)	<= 20.0 ppb	<10.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 20.0 ppb	1.8 ppb
Trace Impurities – Cobalt (Co)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Copper (Cu)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Gallium (Ga)	<= 20.0 ppb	<1.0 ppb
Trace Impurities – Germanium (Ge)	<= 10.0 ppb	<10.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<250.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	4.6 ppb
Trace Impurities – Lead (Pb)	<= 10.0 ppb	<10.0 ppb
Trace Impurities – Lithium (Li)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	<1.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

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Test	Specification	Result
Trace Impurities – Manganese (Mn)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Nickel (Ni)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Niobium (Nb)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Potassium (K)	<= 600.0 ppb	204.4 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	<10.0 ppb
Trace Impurities – Silver (Ag)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Sodium (Na)	<= 100.0 ppb	<5.0 ppb
Trace Impurities – Strontium (Sr)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Tantalum (Ta)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Thallium (Tl)	<= 50.0 ppb	<5.0 ppb
Trace Impurities – Tin (Sn)	190.0 – 500.0 ppb	298.1 ppb
Trace Impurities – Titanium (Ti)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Vanadium (V)	<= 10.0 ppb	<1.0 ppb
Trace Impurities – Zinc (Zn)	<= 50 ppb	<1 ppb
Trace Impurities – Zirconium (Zr)	<= 10.0 ppb	<1.0 ppb
Particle Count – 0.2 µm and greater	<= 1175 par/ml	9 par/ml
Particle Count – 0.5 µm and greater	<= 100 par/ml	<1 par/ml

For Microelectronic Use

Country of Origin: United States
Packaging Site: Paris Mfg Ctr & DC


Michelle Bales
Sr. Manager, Quality Assurance

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