



Hydrogen Peroxide Semi Grade

CAS NO 7722-84-1

Introduction

The FMC's Semi grade hydrogen peroxide is supplied at concentrations of 31%, 50% and 70%. Through care in manufacturing and handling, and application of statistical process control principles, FMC has established even more stringent specifications than those required by SEMI (Semiconductor Equipment and Materials Institute) or by the American Chemical Society for reagent chemicals.

This exceptionally pure and highly stable product is designed for use both as a reagent in analytical chemistry and in processing applications that require materials of exceedingly low residues.

<u>{PRIVATE}Specifications</u>	<u>FMC Specification</u>
Assay (H ₂ O ₂) % by weight	31.0 - 31.8
Stability, 24 hours @ 100° C	98.0% min
Color (APHA)	7 max
Chloride (Cl)	200 ppb max
Phosphate (PO ₄)	1500 ppb max
Sulfate (SO ₄)	3000 ppb max
Total Organic Carbon (TOC)	20000 ppb max
Free Acid	0.6 µeq/g max
Aluminum (Al)	70 ppb max
Antimony (Sb)	5 ppb max
Arsenic (As)	5 ppb max
Barium (Ba)	20 ppb max
Boron (B)	10 ppb max
Calcium (Ca)	50 ppb max
Chromium (Cr)	20 ppb max
Copper (Cu)	10 ppb max
Gold (Au)	10 ppb max
Iron (Fe)	50 ppb max
Lead (Pb)	10 ppb max
Lithium (Li)	10 ppb max
Magnesium (Mg)	10 ppb max
Manganese (Mn)	10 ppb max
Nickel (Ni)	10 ppb max
Potassium (K)	400 ppb max
Silicon (Si)	100 ppb max
Sodium (Na)	100 ppb max
Tin (Sn)	500 ppb max
Titanium (Ti)	10 ppb max
Zinc (Zn)	50 ppb max
Zirconium (Zr)	10 ppb max