

HYDROGEN PEROXIDE (H₂O₂)

Perhydrol, Hydroxyperoxide, Oxydol

Specifications	Concentration*	Acidity	Stability	Appearance
Test Method	Titration	Titration	Heating-Titration	Visual
Unit	(m/m)	(H ₂ SO ₄)	(m/m)	
HYDROGEN PEROXIDE %30	≥30%	≤0.040%	≥97%	Clear, colorless liquid
HYDROGEN PEROXIDE %35	≥35%	≤0.040%	≥97%	Clear, colorless liquid
HYDROGEN PEROXIDE %50	≥50%	≤0.040%	≥97%	Clear, colorless liquid
HYDROGEN PEROXIDE %60	≥60%	≤0.045%	≥97%	Clear, colorless liquid
HYDROGEN PEROXIDE %70	≥70%	≤0.045%	≥97%	Clear, colorless liquid

PRODUCT DESCRIPTION

*Physical and Chemical Properties:

Specifications	30%	35%	50%	60%	70%
Boiling Point (°C)	106	108	114	119	125
Freezing Point (°C)	-26	-32	-52	-56	-37.5
Active O ₂ Content (%)	14.1	16.5	23.5	28.5	32.5
Relative density (20°C/4°C)	1.11	1.13	1.19	1.24	1.29
Total Vapor Pressure (30°C)	25 torr	24 torr	18 torr	14 torr	11 torr
Partial Vapor Pressure (30°C)	0.25 torr	0.3 torr	0.6 torr	0.9 torr	1.3 torr

APPLICATION

- Textile sector; in bleaching fabric and raw cloth
- Paper and pulp sector; in bleaching paper pulp and waste paper
- Chemical sector; in oxidation and hydroxylation reactions, in the production of organic/inorganic peroxides such as peracetic acid, sodium perborate, sodium percarbonate, calcium peroxide
- Environmental chemicals sector; in providing dissolved oxygen to water in wastewater treatment and in eliminating the toxic effects of water
- Food sector; in sterilizing beverage cans such as milk and fruit juice
- Pharmaceutical sector; as a local antiseptic; in contact lens cleaner
- Cosmetics sector; in lightening hair color and hair dye
- Mining sector; in eliminating the toxic effects of various minerals
- Metallurgy sector; in creating metallic surfaces
- Pool chemicals sector; in disinfection of pool waters.

PACKAGING, STORAGE & SHELF LIFE

IBC, Bluk, Delivered in 65 kg plastic (polyethylene) drums.

Hydrogen Peroxide should be stored in a cool place, away from direct sunlight, heat and oxidizing agents.

Materials that are suitable for storage of hydrogen peroxide: Stainless steel (304/316 L), Pure aluminum (min % 99,5), Tantalum, Zirconium, Glass/Ceramic.

Polyethylene and PVC (They can only be used for concentrations up to 60 wt %)

It is recommended to be kept in closed container and consumed within 12 months from the date of production.



Note: The packaging must always be kept closed to prevent catalytic contamination that may lead to the decomposition of Hydrogen Peroxide. Although the product is not fundamentally flammable, oxygen released as a result of its decomposition may intensify combustion, and therefore, contact with flammable organic materials must be avoided during use.

SAFETY & PRECAUTIONS

Please refer to SDS before handling for safe use and regulatory information. You can contact your sales representatives to obtain SDS.

In case of spills and leaks in areas of use, sufficient water should be available to wash the area where the product is spread. The environment should be ventilated to reduce the spread of H₂O₂ vapors. Since the product is irritating to the skin, nose, throat and lungs, protective clothing should be worn.

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