

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

*Test methods can be shared if they are required.

PRODUCT DESCRIPTION

Concentration	%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	32,9
Relative density (20°C/4°C)	1,11	1,13	1,19	1,24	1,29
Total Vapor Pressure (torr @30°C)	25	24	18	14	11
Partial Vapor Pressure (torr @30°C)	0,25	0,3	0,6	0,9	1,3

APPLICATION

In textile industry as a bleaching agent,
 In pulp and paper industry as bleaching agent,
 In chemical industry; in oxidation and hydroxylation reaction; also in the production of organic/inorganic peroxy compound like perasetic acid, sodium perborate, sodium percarbonate and calcium peroxide,
 In environmental chemicals by waste water treatment as a detoxifying agent and provides dissolved oxygen,
 In food processing for sterilization of packaging of milk, fruit, juices etc.,
 In pharmaceutical industry as topical antiseptic and contact lens cleaner,
 In cosmetics industry as hair bleaching and dye setting through oxidation,
 In mining industry for removing poisonous effects of different mines,
 In metallurgy industry for forming of metallic surface,
 In pool chemicals for water cleaning and recovery.

PACKAGING, STORAGE & SHELF LIFE

Delivered in 65 kg plastic drums, 1 m³ IBC tanks and bulk in ISO containers.
 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 (304L/316 L)
 Pure aluminum (min % 99,5)
 Tantalum
 Zirconium
 Glass/Ceramic
 Polyethylene and PVC (They can only be used for the concentrations up to 60 wt %)
 Shelf life is one year.

SAFETY & PRECAUTIONS

Keep the empty containers sealed to prevent the penetration of any catalytically active contaminant.
 Avoid the contact with organic material or oxidizable product. Even though the product is not flammable itself, the concentrated solution will act as a strong oxidizing agent and may ignite flammable materials.



Always keep sufficient water to wash the area, in case of an accidental leakage or spill. Aerate the place in order to remove the hydrogen peroxide vapor.

Wear a protective clothing, to avoid the corrosive effect of hydrogen peroxide on skin, mucous membranes and respiratory passages.

Please review Safety Data Sheet for safety precautions and legal warnings. Safety Data Sheet will be shared by sales representative upon request.

02/01.06.2021

All above information is the best of our knowledge obtained during research and technical practices. Users of our products should verify the data under their own operating conditions. Akkim makes no warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this document. Akkim disclaims liability for the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the misuse or improper handling of this product. This data sheet is valid until subsequent issue. We reserve the right to change the given data without notice.