







THAI PEROXIDE CO., LTD

(Joint venture of PeroxyChem, USA and Aditya Birla Group.)

OFFICE: 77 Moo 6 Soi Sukhaphiban 1 Poochaosamingprai Rd., Samrong, Phapradaeng, Samutprakarn 10130, THAILAND.Phones: (66 2) 7042100, 7484970 Fax: (66 2) 3985510, Email:

customerservices.thaichemicals@adityabirla.com

PRODUCT INFORMATION.

50% Hydrogen Peroxide Herlisil-500 Grade

Description : A water like clear & colorless liquid.

Formula : H₂O₂ **CAS NO**. : 7722-84-1

Synonyms : Peroxide, Dihydrogen dioxide

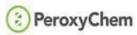
Molecular weight : 34.016 g/mole **Physical and Chemical properties:**

Active oxygen content	23.5	%wt
Freezing point	-52	°C
Boiling point	114	°C
Vapor pressure @ 86 °C	18	mm Hg
Viscosity		
@ 32 °C	1.87	ср
@ 68 °C	1.17	ср
Heat of decomposition	335	cal/gm
Mole fraction	0.346	

Specification

CHARACTERISTICS	UNIT	SPECIFICATION	TEST METHOD
Hydrogen Peroxide	% w/w	50.0 min	TPL QCWK-1001
Stability @ 96 ° C, 3 hrs	%	99.6 min	TPL QCWK-1012
рН	-	1.6 max	TPL QCWK-1002
Sp.Gravity @25 <u>+</u> 1° C	-	1.19 min	TPL QCWK-1009
Appearance	-	Clear	TPL QCWK-1008
Color	H.U	15 max	TPL QCWK-1008
Silver	ppm	500 min	TPL QCWK-1028







THAI PEROXIDE CO., LTD

(Joint venture of PeroxyChem, USA and Aditya Birla Group.)

OFFICE: 77 Moo 6 Soi Sukhaphiban 1 Poochaosamingprai Rd., Samrong, Phapradaeng, Samutprakarn 10130, THAILAND.Phones: (66 2) 7042100, 7484970 Fax: (66 2) 3985510, Email:

customerservices.thaichemicals@adityabirla.com

Product performance

Best if used within 12 months and stored at 35°C maximum.

Applications

- Sea-food, fruits , vegetable packaging : Prevents fish gill decomposition / Surface disinfection of equipment / Yeast washing.
 - Beverage industry and breweries: Bottle washer / pipeline disinfection / surface disinfection.
- Poultry Farm: Disinfection of chicken coop and drinking water tanks / pipes to minimize the risk of infection to live stock.

Test Method

Determination of the active oxygen content and concentration by titration with potassium permanganate.

Handling & Storage

Wear safety goggles and gloves. Protect Herlisil from heat and any contamination. Especially, contamination with heavy metal will catalyze the decomposition of H_2O_2 . H_2O_2 solutions are nonflammable but can ignite flammable material . H_2O_2 should be stored in the original containers or in specially designed tanks. That Peroxide engineering group is able to assist you with design and installation.

Packaging

5 kg. HDPE Drum30 kg. HDPE Drum

Hazards

- \bullet Herlisil depending on the concentration .is classified as irritating and corrosive or as corrosive and oxidizing. Although H_2O_2 solutions are not flammable. Concentrate H_2O_2 can ignite flammable materials. Improper handing may result in rapid decomposition.
- •For labeling, transport regulations, first aid and toxicology information, refer to material safety data sheet.

Prepared by: QC Dept. Rev. No. 3 Date of issue: 4.10.18