

 <b>Indian Peroxide</b> <small>SPECIALTY CHEMICALS COMPANY</small>	<b>INDIAN PEROXIDE LIMITED</b>	Doc. No	HPSP – 15
	<b>HYDROGEN PEROXIDE 35%w/w, Food Grade</b>	Issue Date	01.06.2023
	<b>PRODUCT SPECIFICATION SHEET</b>	Rev. No	02

## A. PRODUCT INFORMATION

<b>Trade Name</b>	: IPEROX - COMBI
<b>Name of the Product</b>	: Hydrogen Peroxide 35%w/w
<b>Grade</b>	: Food Processing & Packaging
<b>Formula</b>	: H <sub>2</sub> O <sub>2</sub>
<b>CAS Number</b>	: 7722-84-1

## B. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	: Clear, colorless liquid
<b>Odor</b>	: Slightly pungent
<b>Identification Test:</b>	: Complies
Shake 1 mL of sample with 10 mL of water containing 1 drop of 2 N sulfuric acid, and add 2 mL of ether. The subsequent addition of a drop of potassium dichromate TS produces an evanescent blue color in the water layer that upon agitation and standing passes into the ether layer.	
<b>Boiling Point @ 760mm Hg, °C</b>	: 108
<b>Freezing Point °C</b>	: (-) 33
<b>Vapor Pressure @ 30 °C, mm Hg</b>	: 23
<b>Active Oxygen (%)</b>	: 16.4
<b>Shelf Life/Re-test date</b>	: 12 months from date of manufacturing, under recommended storage conditions.

## C. SPECIFICATIONS

#	Parameters	Units	FCC Codex Limits	IPL Specifications	Method Of Analysis
1	Strength of H <sub>2</sub> O <sub>2</sub>	% w/w	Min. 35.0	Between 35.0 to 35.80	By KmnO <sub>4</sub> Titration
2	Acidity (as H <sub>2</sub> SO <sub>4</sub> )	%	Max. 0.03	Max 0.03	By NaOH Titration
3	Residue on evaporation at 105 °C	%	Max. 0.006	Max. 0.0025	By Evaporation
4	Phosphate (as PO <sub>4</sub> )	%	Max. 0.005	Max. 0.005	By Colorimetric
5	Iron (as Fe)	ppm	Max. 0.50	Max. 0.50	By Colorimetric
6	Heavy Metal (as Pb)	ppm	Max. 4.0	Max. 4.0	By Colorimetric
7	Tin (as Sn)	ppm	Max. 10.0	Max. 10.0	By Colorimetric
8	Arsenic (as As)	ppm	Max. 3.0	Max. 3.0	By Modified Gutzeit method
9	Apparent pH	--	--	Between 2.0 to 4.0	By KmnO <sub>4</sub> Titration
10	Stability as ml of O <sub>2</sub> emitted/25 ml sample @ 100 °C	ml of O <sub>2</sub> /min	--	Max 0.3	By Gaseometric
11	Specific gravity @ 20 °C	kg/m <sup>3</sup>	--	1132-1135	By Hydrometer
12	Turbidity	NTU	--	Max 0.5	By Turbidity meter

Note: Product meets specifications of hydrogen peroxide as required by "Food Chemicals Codex" (FCC), 5th Edition.

## D. Transport

Transportation should take place between -25°C and 60°C, though elevated temperatures (>40°C) should be avoided if possible.



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