



Hydrogen Peroxide 35% FCC (AFCO 4305)

GENERAL DESCRIPTION

Hydrogen Peroxide 35% FCC (AFCO 4305) is a 35% solution of hydrogen peroxide. AFCO 4305 meets or exceeds the rigorous high purity requirements listed in the Food Chemical Codex and United States Pharmacopeia. It is designed for food uses allowed in the Code of Federal Regulations. AFCO 4305 should be used where exceedingly low residue is required, such as in spray aseptic packaging applications. This material is not for human or animal consumption.

SPECIFICATIONS

AFCO 4305 meets the following specifications:

H ₂ O ₂ Content, % by Weight	35%.
Stability, 24 hours @ 100°C	>96%

AFCO 4305 meets the following Food Chemical Codex specifications:

Residue (110°C), %	0.006 max (60 ppm)
Heavy Metals as Lead, %	0.001 max (10 ppm)
Acidity as H ₂ SO ₄ , %	0.03 max (300 ppm)
Tin, %	0.001 max (10 ppm)
Phosphate, %	0.005 max (50 ppm)
Iron, %	0.00005 max (0.5 ppm)

TYPICAL PROPERTIES

Apparent pH	2.5 to 4.0
Residue, ppm	<10
Loss in % assay, 1 yr., 25°C	<0.7
Arsenic (ICP), ppm	<0.001
Lead (ICP), ppm	<0.001

TECHNICAL DATA SHEET

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Iron (ICP), ppm	<0.03
Apparent pH	2.5 to 4.0
Active Oxygen. % by weight	16.5
Specific Gravity @ 20°C	1.13
H ₂ O ₂ Gram per Liter @ 20°C	396
Lbs./U.S. Gallon @ 20°C	9.4
Freezing Point, °C	-32

DIRECTIONS FOR USE

Consult your AFCO/Zep representative for specific use directions.

SAFETY AND HANDLING

DANGER! Corrosive. Causes severe skin burns and serious eye damage. Harmful if swallowed. May cause respiratory irritation. See product's Safety Data Sheet (SDS) for complete safety information.

Hydrogen peroxide is a very reactive chemical and must be handled carefully. It should be stored in the original containers until ready for use, and any material removed from the original container must not be returned to it. Personnel should wear rubber gloves, eye and face protection, and suitable protective clothing when handling this chemical. Utensils used for handling hydrogen peroxide must be of compatible materials like glass, stainless steel, aluminum or plastic. Hydrogen peroxide must not be placed in a closed, unvented container.

Any spilled hydrogen peroxide should be immediately flooded with water and washed away with large quantities of water.

Although neither hydrogen peroxide nor its decomposition products—oxygen and water—are systemic poisons, concentrated solutions irritate the skin, particularly mucous membrane tissue, and the eyes. If the chemical comes in contact with the skin, it should be immediately washed off thoroughly with generous quantities of water. If it contacts the eyes, flush thoroughly and consult a physician promptly. If swallowed, drink lots of water but do not encourage vomiting. Call a physician immediately.

Clothing must be washed thoroughly with water should it come in contact with hydrogen peroxide. If allowed to dry in the fabric, the chemical may cause fire, particularly if the clothing is soiled.

Consult the product's Safety Data Sheet (SDS) for complete handling information.