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Header @ 1

List View

General Information Contact Default Values Discount Document Information Clarification Request

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Responded By User ID: frank	Total of Header Attachments: 1
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Hydrogen Peroxide – Standard Grade

CAS NO 7722-84-1

Introduction

Standard Grade hydrogen peroxide is formulated for high stability and long-term storage. The 70% concentration can be diluted to lower concentrations with tap water that meets US drinking water standards. If needed, PeroxyChem can provide assistance in determining if the dilution water proposed for use is acceptable. This permits a customer to achieve maximum economy by purchasing hydrogen peroxide at 70% concentration and diluting it to lower concentrations for storage. This hydrogen peroxide product is suitable for storage at 70% concentration if desired. PeroxyChem drummed or diluted product meets the assay and stability specifications below.

Standard Grade Hydrogen Peroxide is used extensively for pulp, textile, and environmental applications. It is the most suitable grade available for industrial purposes.

Specifications

H ₂ O ₂ content, % by weight	<u>35%</u>	<u>50%</u>	<u>70%</u>
Product diluted at sites	35.0 – 35.8	50.0 – 50.8	68.0 – 70.8

Typical Properties

	<u>35%</u>	<u>50%</u>	<u>70%</u>
Stability (3 hours @ 100°C)	≥ 99.6%	≥ 99.6%	≥ 99.6%
Apparent pH	≤ 3.7	≤ 3.0	≤ 1.0
Specific gravity @ (20°C/4°C)	1.13	1.20	1.29
Lbs/U.S. gal (kg/m ³) @ 20°C	9.4 (1130)	10.0 (1200)	10.8 (1290)
Freezing point °C (°F)	-33 (-27)	-52 (-62)	-40 (-40)

Standard Containers

Polyethylene drums / totes: 15 gallon (56.8 liter), 30 gallon (113.6 liter), 55 gallon (208.2 liter), 330 gallon (1250 liter). Bulk shipments are available in tank trucks and tank cars.

Hydrogen peroxide above 8% concentration is classified as an "Oxidizer" by the Department of Transportation and all containers must carry the yellow DOT Oxidizer and, if applicable, the black Corrosive label / placard.

Prior to working with Hydrogen Peroxide consult the Material Safety Data Sheet and PeroxyChem to understand personal protective equipment, first aid measures and proper safety and handling procedures and equipment.

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