



FMC Corporation
Peroxygens Division
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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, FMC 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. FMC 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.

<u>Specifications</u>	<u>35%</u>	<u>50%</u>	<u>70%</u>
H ₂ O ₂ content, % by weight	35.0-35.8	50.0-50.8	68.0-70.8

<u>Typical Properties</u>	<u>35%</u>	<u>50%</u>	<u>70%</u>
Stability 3 hr @ 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/gal (kg/M ³ or g/L) @ 20° C	9.4 (1126)	10.0 (1198)	10.8 (1294)
Freezing Point °C (°F)	-33 (-27)	-52 (-62)	-40 (-40)

Shipping Containers

Polyethylene drums and totes: 15 gallon (56.8 liter), 30 gallon (113.6 liter), 55 gallon (208.2 liter), 330 gallon (1250 liter).

Bulk shipments: 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 FMC Corporation to understand personal protective equipment, first aid measures and proper safety and handling procedures and equipment.

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