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Hydrogen Peroxide - Durox[®] and Durox[®] LR Grades

CAS NO 7722-84-1

Introduction

The Durox[®] and Durox[®] LR hydrogen peroxide products meet the rigorous high purity requirements listed in the Food Chemicals Codex, Seventh Edition. Available in 35% and 50% concentrations, they are designed for food uses allowed in the Code of Federal Regulations. Durox LR hydrogen peroxide should be used where exceedingly low residue is required, such as in spray aseptic packaging applications. Durox hydrogen peroxide contains higher stabilizer than Durox LR hydrogen peroxide for applications requiring prolonged contact with stainless steel surfaces and general food uses. Neither Durox nor Durox LR hydrogen peroxide grade is approved for human or animal consumption.

Specifications

H ₂ O ₂ content, % by weight	<u>35%</u>	<u>50%</u>
Product diluted at FMC sites	35.0-35.8	50.0-50.8
Stability, 24 hours @ 100° C	>96.0%	>96.0%

All concentrations of Durox and Durox LR hydrogen peroxide shipped meet the following Food Chemicals Codex Specifications.

Residue (110°C), %	0.006 max (60 PPM)
Lead, %	0.0004 max (4 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)

The following typical values hold for either Durox or Durox LR hydrogen peroxide.

Typical Properties

Approximate Value

	<u>35%</u>	<u>50%</u>
Specific gravity @ 20°C	1.13	1.20
Freezing point, °C (°F)	-33 (-27)	-52 (-62)

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.

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