

**SAY NO TO GLOBAL WARMING!**

**USE**

# **HALOTRON® I**

**ENVIRONMENT FRIENDLY FIRE EXTINGUISHERS**

**ISO 9001 : 2000  
CERTIFIED**



## **SPECIAL FEATURES**

- Halon 1211 Replacement
- Environment Friendly
- Non-expirable
- Multi-shot
- Multi-purpose
- Non-toxic (for class A, B & C fires)
- Non-corrosive & non-acidic
- Electrically non-conductive
- No messy residue
- Effective and easy to use
- With counterpart UL listing
- The biggest US manufacturers use Halotron® I as Halon 1211 replacement

**5 YEAR WARRANTY**



**PALMER-ASIA INC.**

Fire Extinguishers ▪ Fire & Security Systems ▪ Fire Trucks



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# REPLACEMENT FOR HALON 1211! HALOTRON® I FIRE EXTINGUISHERS

## PRODUCT DESCRIPTION:

Halotron® I is a clean fire extinguishing agent. It is an HCFC based agent blended with two gases. Halotron® I is a high boiling point agent which is ideal for streaming applications and adaptable for small compartment flooding applications. The primary extinguishing mechanism of Halotron® I is the absorption and removal of heat from the combustion zone. To a much lesser extent, the extinguishing mechanism is the displacement of oxygen from the combustion zone. Ideal uses: Delicate electrical equipment such as computers, telephone switch gear, sensitive data storage areas, offices, vehicles, boats, forest machines, aircraft flight lines, and laboratories.

### Halon 1211 and Halotron® I Comparison

PROPERTY	HALON 1211	HALOTRON I
Chemical Formula	CF <sub>2</sub> ClBr	C <sub>2</sub> HCl <sub>2</sub> F <sub>3</sub> (HCFC-123) + Prop. Gas Mixture
Ozone Depletion Potential (ODP) CFC-11=1.0	3	0.014
Global Warming Potential (GWP) (CFC-11=1.0)	Not calculated	120
Atmospheric Lifetime in Years	15	1
Molecular Weight	165.4	150.7
Boiling Point	-3.8°C (25°F)	27°C (80.6°F)
Liquid Density at 25°C (76°F)	1.79 kg/ l (111.6 lb/ ft <sup>3</sup> )	1.48 kg/ l (92.3 lb/ ft <sup>3</sup> )
Vapor Pressure at 25°C (76°F)	2.67 bar (38.7 psi)	6.55 bar (95 psi)
Extinguishing Concentration: n-heptane Cup Burner	30.5% by vol.	6-7% by vol.
Extinguishing Concentration: REMP Method	4-5	6-7
Acute Toxicity: Cardiotox LOAEL (lowest observed adverse effect level)	1.0%	2%
Acute Toxicity: Cardiotox NOAEL (no observed adverse effect level)	0.5%	1%
Acute Toxicity: C	3.1 to 10%	>3%

COMPREHENSIVE DATA	
ODP=0.014 (CFC-11=1.0)	GWP=0.04-0.24 (CFC-11=1.0)
Atmospheric Lifetime = 3.5 years	
APPROVALS	
<b>USEPA</b>	United States Environmental Protection Agency
<b>FAA</b>	Federal Aviation Administration
<b>ISO</b>	International Organization for Standardization
<b>DENR</b>	Department of Environment and Natural Resources
<b>BPS</b>	Bureau of Products Standards
<b>BFP</b>	Bureau of Fire Protection

## Technical Specifications:

Model	PH-1	PH-2.5	PH-5	PH-10	PH-11	PH-17.6	PH-20	PH-50	PH-100	PH-200
Picture	1	2	3	4	5	6	7	8	9	10
Net Weight	1.0 lbs.	2.5 lbs.	5.0 lbs.	10.0 lbs.	11.0 lbs.	17.6 lbs.	20.0 lbs.	50.0 lbs.	100.0 lbs.	200.0 lbs.
BPS Rating	Non-BPS	1B:C	2B:C	1A:10B:C	1A:10B:C	2A:10B:C	2A:10B:C	10A:60B:C	20A:120B:C	40A:240B:C
Height	10 ½"	12 ½"	13"	22"	24"	25 ½"	25 ½"	38 ½"	41 ½"	46"
Diameter	2 11/14"	4 ½"	5 3/8"	6 ¼"	6 ¼"	6 ¾"	7"	12"	12 ½"	14 ½"
Pressure	125 psi	125 psi	125 psi	100 psi	125 psi	125 psi	125 psi	125 psi	125 psi	125 psi
Discharge Time/sec.	5	7	9	10	11	12	14	20	30	60