



Data/ Specification Sheet

FE-36™ CLEAN AGENT HAND PORTABLE EXTINGUISHERS

FEATURES

- Economically priced
- Meets or exceeds requirements of ANSI/UL 2129 and 711
- Listings and approvals include UL, ULC, and FAA
- Simple operation and maintenance
- Tough, glare-resistant, one-piece mylar nameplates
- Rechargeable
- Manufactured of durable high quality materials
- Operating temperature range is -40 °F to 120 °F (-40 °C to 49 °C)
- Large, easy-to-read pressure gauge
- Hand portable fire fighting training at the world renowned ANSUL® Fire School
- Six-year limited warranty from date of delivery to original end-user purchaser
- Sold and serviced through a network of independent distributors in every state and most foreign countries
- Optional multi-purpose strap brackets available

APPLICATIONS

FE-36™ clean agent extinguishers are designed for protection of light and ordinary hazards. These compact and portable extinguishers are suited for both industrial and commercial fire protection needs. Typical applications include:

- Computer rooms
- Essential communication areas
- Irreplaceable data, document, and art storage rooms
- Laboratories
- Sensitive/expensive equipment

DESCRIPTION

1. PYRO-CHEM® shells are produced by a single-step cold deep draw process which yields a seamless steel cylinder with an extremely high tensile strength.
2. PYRO-CHEM's unique pre-treatment of the raw low carbon steel not only consists of a cleaning process, but also applies a special lubricant which helps keep the interior and exterior shell surfaces scratch-free.
3. The collar and specially preformed bottom enclosure are MIG welded to produce a smooth, high integrity weld.
4. Extinguisher shells are 100% factory air tested in excess of 600 psi (41.4 bar).
5. Proprietary metal finishing equipment and two-coat powder paint system used by PYRO-CHEM is superior to conventional liquid and powder paint systems. The equipment and the two-coat system work together to maximize the properties of each paint.



6. Prior to painting, a custom designed shot blaster is used to obtain a "white metal" finish on the exterior of the shell. The blasting process removes surface contaminants and provides a textured surface which promotes paint adhesion.
7. The specially formulated two-coat powder paint system is electrostatically applied and cured in infrared ovens. First, an epoxy primer is applied for maximum corrosion resistance and adhesion. Then, to resist fading, cracking, and chipping; a polyester urethane top coat is applied.
8. Easy grip extinguisher handles designed for maximum portability, allowing operators to fight the fire without removing work gloves.
9. PYRO-CHEM extinguisher valve bodies are made from a durable extruded aluminum alloy which has been black anodized for additional corrosion resistance.
10. Completed valve assemblies feature plated steel valve stems which contain O-Ring and seat material compatible with the FE-36 agent to provide reliable performance and long life.
11. Rugged all-steel pick-up tubes help provide proper and dependable agent flow through the valve body.
12. PYRO-CHEM extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.
13. Metal ring pins with metal retention chains are utilized and held in place by a visual inspection seal to help prevent accidental discharges.
14. One-piece mylar label with easy-to-read pictograms provides the user with step-by-step operating instructions and the hazard classes for which the extinguisher was designed. Label also contains useful recharge, maintenance, inspection, operating temperature, HMIS and model information. (Optional multilingual nameplates are also available.)
15. Large, easy-to-scan bar coded model and UL serial numbers simplify inspection and maintenance record keeping.
16. PYRO-CHEM valve subassemblies are 100% tested for functionality before final assembly.



PYRO-CHEM
One Stanton Street
Marinette, WI 54143-2542
715-732-3465
www.pyrochem.com

PYRO-CHEM is a trademark of Tyco International Ltd. or its affiliates.

SPECIFICATIONS

Model No.	FE02	FE05	FE09	FE13
Part No.	551965	551966	551967	551968
Agent Capacity (Dupont FE-36)	2.5 lb (1.1 kg)	4.75 lb (2.2 kg)	9.5 lb (4.3 kg)	13.25 lb (6 kg)
Discharge Time	9.0 sec.	8.6 sec.	9.5 sec.	13.5 sec.
Listings/Approvals	UL	FAA	FAA	FAA
Rating	2-B:C	5-B:C	1-A:10-B:C	2-A:10-B:C
Range	8-10 ft (2.4-3.1 m)	10-12 ft (3.1-3.7 m)	14-16 ft (4.3-4.9 m)	14-16 ft (4.3-4.9 m)
Dimensions	Height	14 1/4 in. (362 mm)	17 in. (432 mm)	18 3/4 in. (476 mm)
	Width	5 3/4 in. (146 mm)	8 1/2 in. (216 mm)	9 in. (229 mm)
	Depth	3 3/8 in. (86 mm)	4 7/16 in. (113 mm)	7 in. (178 mm)

Fire Suppression Capability

Notice Operator*

Class B	2 sq ft (0.19 sq. m)	5 sq ft (0.47 sq. m)	10 sq ft (0.93 sq. m)	10 sq ft (0.93 sq. m)
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Experienced Operator

Class B	5 sq ft (0.47 sq. m)	12.5 sq ft (1.2 sq. m)	25 sq ft (2.3 sq. m)	25 sq ft (2.3 sq. m)
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Hydrostatic Test Requirement: Once every 12 years (all models)

DESCRIPTION (Continued)

- PYRO-CHEM extinguishers are filled at the factory to precise tolerances.
- Pressurized and 100% leak tested utilizing mass spectrometry technology.
- Anodized metal nozzle tips are designed to tight specifications and maximize the extinguishment capabilities of the particular model.
- PYRO-CHEM extinguishers are shipped from the factory in individual recyclable corrugated cardboard cartons. Designed and field tested to help assure your extinguishers arrive undamaged and ready for operation. The glued one-piece cartons have carrying handles and a pressure gauge inspection port.
- All PYRO-CHEM extinguisher cartons are properly labeled according to the latest DOT regulations for ease of shipping in the field.
- As a final quality control step, PYRO-CHEM extinguishers are randomly sampled for performance testing, which includes weight percent discharge and discharge times.

AGENT

FE-36™ is a colorless, odorless, electrically non-conductive “clean” agent which discharges as a liquid and flashes to a gas, providing an increased effective firefighting range. FE-36 will not cause thermal shock damage to delicate electronic equipment.

FE-36 has been accepted by the EPA for commercial, industrial, and military use under the EPA's SNAP program.

FE-36 AGENT

Exceptionally effective fire extinguishant. The extinguishing concentration (cup burner) of FE-36 is only 5.9% – and because it discharges as a liquid, it also provides an effective discharge range up to 16 ft (4.9 m).

Safe for sensitive electronic components. FE-36 is electrically nonconductive, residue-free, and will not cause thermal shock damage.

EPA/SNAP Acceptance. FE-36 has been accepted by the EPA for commercial, industrial, and military use under the EPA's SNAP program. It boasts ZERO Ozone Depletion Potential and is NOT scheduled for phase-out by the Montreal Protocol.

Very low toxicity. The Lowest Observable Adverse Effects Level (LOAEL) of FE-36 is 15%, well above its extinguishing concentration. Other agents have LOAEL's of only 1% or 2% which is actually below their extinguishing concentrations.

LISTINGS

PYRO-CHEM FE02, FE05, FE09, and FE13 extinguishers are UL and ULC listed.

APPROVALS

PYRO-CHEM FE05, FE09, and FE13 extinguishers are approved by the U.S. Coast Guard and the Federal Aviation Agency (FAA) for use aboard both civilian and commercial aircraft as replacements for Halon 1211 extinguishers.

ORDERING INFORMATION

For fire protection assistance, see your nearest authorized PYRO-CHEM distributor or contact your sales representative.

CLEAN AGENT COMPARISON

EXTINGUISHING AGENT	FE-36	HALOTRON I	HALON 1211
Chemical Family	HFC	HCFC	BCFC
Acute Toxicity: Cardiotox LOAEL (Lowest Observable Adverse Effects Level) <i>A higher % is less toxic.</i>	15%	2%	1%
Acute Toxicity: Cardiotox NOAEL (No Observable Adverse Effects Level) <i>A higher % is less toxic.</i>	10%	1%	0.5%
Minimum volume of room for approved use (Per UL 1093 and 2129) <i>Volumes must be larger for more toxic agents.</i>	2-B:C 39 cu ft (1.1 m ³) 5-B:C 73 cu ft (2.1 m ³) 1-A:10-B:C 146 cu ft (4.1 m ³) 2-A:10-B:C 204 cu ft (5.8 m ³)	350 cu ft (9.9 m ³) 700 cu ft (19.8 m ³) 1540 cu ft (43.6 m ³) 2170 cu ft (61.4 m ³)	156 cu ft (4.4 m ³) 312 cu ft (8.8 m ³) 1125 cu ft (31.9 m ³) 1725 cu ft (49.6 m ³)
Hazardous Material Identification System (HMIS)	Health: 1 - Slight Flammability: 0 - Minimal Reactivity: 1 - Slight	1 - Slight 0 - Minimal 1 - Slight	2 - Moderate 0 - Minimal 0 - Minimal
Agent Quantity Required to Achieve Rating	2-B:C 2.5 lb (1.13 kg) 5-B:C 4.75 lb (2.2 kg) 1-A:10-B:C 9.5 lb (4.3 kg) 2-A:10-B:C 13.25 lb (6.0 kg) (2-A:40-B:C)	2.5 lb (1.13 kg) 5 lb (2.3 kg) 11 lb (5.0 kg) 15.5 lb (7.0 kg)	1.25 lb (.57 kg) 2.5 lb (1.1 kg) 9 lb (4.1 kg) 13-14 lb (5.9-6.4 kg)
Extinguishing Concentration, Cup Burner, n-heptane	5.9%	6-7%	4-5%
Scheduled Raw Material Production Phase-Out per Montreal Protocol *	None	-100% by 2015	-100% by 1994
Ozone Depletion Potential – ODP (CFC-11 = 1.0)	0	0.014	4
Global Warming Potential – GWP	Moderate	Low	N/A
Atmospheric Lifetime	Moderate	Low	Low

* Refers to primary component: HCFC-123.