



A Tyco International Company

SENTRY INDUSTRIAL DRY CHEMICAL HAND PORTABLE EXTINGUISHERS

Data/Specifications

FEATURES

- Designed for corrosive environments and industrial use
- Meets or exceeds requirements of ANSI/UL 299 and 711
- DOT and USCG approved with proper bracket
- Simple operation and maintenance
- Tough, glare-resistant, one-piece mylar nameplates
- Rechargeable
- Manufactured of durable, high quality materials
- Choice of dry chemical agents to satisfy specific protection requirements
- Large, easy-to-read pressure gauge
- Manuals, parts lists, videotapes available for training purposes
- Hand portable firefighting 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 an international network of independent distributors in every state and most foreign countries

APPLICATION

SENTRY industrial dry chemical extinguishers are designed for protection of light, ordinary and extra high hazards. These compact and portable extinguishers are suited for industrial fire protection needs especially for the corrosive environments found in the chemical industry or marine environments including warehousing, chemical storage areas, paint process areas, welding areas, marinas, seaside condominiums, chemical process areas, material handling vehicles and other applications.

DESCRIPTION

1. SENTRY shells are produced by a single-step cold deep-draw process which yields a seamless steel cylinder with an extremely high-tensile strength.
2. 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 pre-formed bottom enclosure are MIG welded to produce a smooth, high-integrity weld.
4. Extinguisher shells are 100% factory hydrotested to 600 psi (41.4 bar).
5. Extinguisher shells are painted with a zinc powder primer and a powder red top coat. The powder top coat resists blistering, cracking, fading, and chipping. The powder zinc primer provides additional protection from corrosive atmospheres.
6. Before the extinguisher shells are painted, they are pre-treated using a special iron phosphate bonding process. This enhances the paint adhesion and corrosion resistance.
7. The specially formulated polyester powder paint is electrostatically applied and oven cured to help ensure complete coverage and uniform paint thickness.
8. Easy-grip stainless steel extinguisher handles are designed for maximum portability, allowing operators to fight the fire without removing work gloves.
9. SENTRY extinguisher valve bodies are made from a durable extruded brass alloy which is chrome plated for additional protection.

10. Completed valve assemblies feature brass valve stems which contain O-Ring and seat material compatible with the 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. Plated brass hose ferrules are used to resist oxidation.
13. SENTRY extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.
14. Plated steel ring pin and chain assemblies are utilized and held in place by a visual inspection seal to help prevent accidental discharges.
15. 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.
16. Large, easy-to-scan bar coded model and UL serial numbers simplify inspection and maintenance record keeping.
17. ANSUL valve subassemblies are 100% tested for functionality before final assembly.
18. SENTRY extinguishers are vacuum-filled at the factory to precise tolerances.
19. Units are pressurized to 195 psi (13.4 bar), and 100% leak tested utilizing mass spectrometry technology.
20. Injection molded nozzle tips are designed to tight specifications and maximize the extinguishing capabilities of the particular model and agent.
21. SENTRY extinguishers are shipped from the factory in individual recyclable corrugated cardboard cartons that are 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.
22. All SENTRY extinguisher cartons are properly labeled according to the latest DOT regulations for ease of shipping in the field.
23. ANSUL dry chemical extinguishing agents are manufactured from high quality raw materials and are carefully blended to meet stringent performance specifications. These agents are then tested to be free-flowing, water repellent and electrically nonconductive.
24. As a final quality control step, SENTRY extinguishers are randomly sampled for performance testing which includes weight percent discharge and discharge times.

AGENTS



FORAY – A monoammonium phosphate-based agent for use on Class A (wood, paper, cloth), Class B (flammable liquids and gases), and Class C (electrical) fires.

Purple-K – A potassium bicarbonate-based agent which is the most effective ANSUL agent for knock-down of Class B (flammable liquids and gases) and C (electrical) fires.

ORDERING INFORMATION

For fire protection assistance, see your nearest authorized ANSUL distributor listed on www.ansul.com or contact your ANSUL sales representative.

SPECIFICATIONS

Dry Chemical Extinguishers	SENTRY 10		SENTRY 20	
		 003682		 003683
Model	AA10SI	PK10SI	AA20I-1	PK20I
Extinguisher Part No.	436583	436586	434750	429012
Bracket Part No.	435793	435793	30937	30937
Agent Capacity	10 lb (4.54 kg) FORAY	10 lb (4.54 kg) Purple-K	20 lb (9.07 kg) FORAY	20 lb (9.07 kg) Purple-K
UL Rating	4-A:80-B:C	80-B:C	10-A:120-B:C	120-B:C
Coast Guard Classification	Type A, Size II Type B, C, Size II	Type B, C Size II	Type A, Size II Type B, C, Size II	Type B, C, Size III
Discharge Time	22 seconds	24 seconds	30 seconds	30 seconds
Maximum Effective Range	19 ft (5.8 m)	19 ft (5.8 m)	22 ft (6.7 m)	22 ft (6.7 m)
Agent Flow Rate	0.50 lb/sec (0.23 kg/sec)	0.46 lb/sec (0.21 kg/sec)	0.75 lb/sec (0.34 kg/sec)	0.69 lb/sec (0.31 kg/sec)
Charged Weight (with agent)	19 lb, 4 oz (8.8 kg)	19 lb, 4 oz (8.8 kg)	33 lb (14.9 kg)	33 lb (14.9 kg)
Dimensions:				
Height	20 1/2 in. (520 mm)	20 1/2 in. (520 mm)	22 1/2 in. (572 mm)	22 1/2 in. (572 mm)
Width	8 1/4 in. (210 mm)	8 1/4 in. (210 mm)	9 1/2 in. (241 mm)	9 1/2 in. (241 mm)
Depth	5 1/4 in. (135 mm)	5 1/4 in. (135 mm)	7 7/32 in. (183 mm)	7 7/32 in. (183 mm)
Class B Fire Suppression Capability*				
Operator:				
Novice	80 sq ft (7.4 sq m)	80 sq ft (7.4 sq m)	120 sq ft (11.15 sq m)	120 sq ft (11.15 sq m)
Experienced	200 sq ft (18.58 sq m)	200 sq ft (18.58 sq m)	300 sq ft (27.87 sq m)	300 sq ft (27.87 sq m)

* Underwriters Laboratories classifies a "novice operator" as one who has little or no experience in operating a fire extinguisher
Hydrostatic Test Requirement: Once every 12 years (All Models)

Listings: UL (All Models)
Approvals: D.O.T., U.S.C.G. (All Models with proper bracket)
Operating Pressure: 195 psi (13.4 bar)