

## SENTRY Dry Chemical Hand Portable Extinguishers

### Features

- Meets or exceeds requirements of ANSI/UL 299 and 711, or ULC S504 and S508
- 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, videos available for training purposes
- 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 an international network of independent distributors in every state and most foreign countries
- 2 1/2 lb and 5 lb units also available with vehicle bracket attached and packaged with extinguisher

### Application

SENTRY dry chemical extinguishers are designed for protection of light and ordinary hazards. These compact and portable extinguishers are designed for commercial/compliance fire protection needs. All extinguishers are designed to fit most wall mounted storage cabinets. Typical applications include light manufacturing, warehousing, restaurants, office buildings, shop areas, auto repair shops, paint process areas, apartment buildings, parking garages, aircraft servicing areas, material handling vehicles, and many others.

### Description

1. SENTRY shells are produced by a cold deep draw process which yields a seamless steel cylinder with a 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 air tested in excess of 600 psi (41.4 bar), 375 psi (26 bar) for 2 1/2 lb units.
5. The powder paint process is superior to conventional liquid based paint systems in its ability to resist blistering, cracking, fading, chipping, and corrosion.
6. Before the extinguisher shells are painted, they are surface treated with a blasting or phosphate bonding process. This enhances the paint adhesion and corrosion resistance.
7. The specially formulated powder paint is electrostatically applied and oven cured to help ensure complete coverage and uniform paint thickness.
8. Easy grip 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 aluminum alloy.
10. Completed valve assemblies feature plated steel 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. SENTRY extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.
13. Large 1 1/4 in. (32 mm) dia. coated steel ring pins are utilized and held in place by a visual inspection seal to help prevent accidental discharges. **Note:** Smaller ring pins for 2 1/2 lb units are stainless steel.
14. One piece, multilingual, color-coded 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.

## Specifications

Dry Chemical Extinguishers	 <p>009631</p>	 <p>007102      007103</p>		
	<b>Model</b>	<b>A02S/A02S VB</b>	<b>AA05S-1/AA05S-1 VB</b>	<b>A05S/A05S VB</b>
<b>Extinguisher Part No. (except Canada)<sup>1</sup></b>	438732/438735	442257/442258	442235/442236	442253
<b>Extinguisher Part No. (Canada)<sup>2</sup></b>	438946/438738	442260/442261	442238/442239	—
<b>International Models</b>	442656	442286/442297	442278/442280	442301
<b>Bracket Part No.</b>	24610	429146	429146	429146
<b>Agent Capacity</b>	2 1/2 lb (1.13 kg) FORAY	5 lb (2.27 kg) FORAY	5 lb (2.27 kg) FORAY	5 lb (2.27 kg) Purple-K
<b>UL/ULC Rating</b>	1-A:10-B:C	3-A:40-B:C	3-A:10-B:C	60-B:C
<b>Coast Guard Classification</b>	Type B, C, Size I	Type A, Size II Type B, C, Size I	Type A, Size II Type B, C, Size I	Type B, C, Size I
<b>Discharge Time</b>	9 seconds	14 seconds	15 seconds	17 seconds
<b>Maximum Effective Range</b>	11 ft (3.4 m)	14 ft (4.3 m)	14 ft (4.3 m)	16 ft (4.9 m)
<b>Operating Temperature Range</b>	-65 °F to 120 °F (-54 °C to 49 °C)	-65 °F to 120 °F (-54 °C to 49 °C)		
<b>Agent Flow Rate</b>	0.31 lb/sec (0.14 kg/sec)	0.36 lb/sec (0.16 kg/sec)	0.37 lb/sec (0.17 kg/sec)	0.30 lb/sec (0.14 kg/sec)
<b>Charged Weight (with agent)</b>	5 lb (2.27 kg)	9 lb, 1 oz (4.12 kg)	8 lb, 13 oz (4.0 kg)	9 lb, 1 oz (4.12 kg)
<b>Dimensions:</b>				
<b>Height</b>	13 3/4 in. (349 mm)	16 3/4 in. (425 mm)		
<b>Width</b>	5 1/4 in. (133 mm)	8 1/2 in. (216 mm)		
<b>Depth</b>	3 3/8 in. (86 mm)	4 7/16 in. (113 mm)		
<b>Fire Suppression Capability<sup>3</sup></b>				
<b>Operator:</b>				
<b>Novice:</b>	10 ft <sup>2</sup> (0.93 m <sup>2</sup> )	40 ft <sup>2</sup> (3.7 m <sup>2</sup> )	10 ft <sup>2</sup> (0.93 m <sup>2</sup> )	60 ft <sup>2</sup> (5.6 m <sup>2</sup> )
<b>Experienced:</b>	25 ft <sup>2</sup> (2.3 m <sup>2</sup> )	100 ft <sup>2</sup> (9.3 m <sup>2</sup> )	25 ft <sup>2</sup> (2.3 m <sup>2</sup> )	150 ft <sup>2</sup> (13.9 m <sup>2</sup> )

<sup>1</sup> UL Listed. English/Spanish nameplates.

<sup>2</sup> ULC Listed. English/Canadian French nameplates.

<sup>3</sup> Underwriters Laboratories classifies a “novice operator” as one who has little or no experience in operating a fire extinguisher.

SENTRY 10			SENTRY 20		
008403		008677	007106		009602
AA10S	PK10S	C10S	AA20-1	PK20	C20
436500	436494	436497	434747	429011	429017
436509	436791	436891	434765	434276	—
442662	442663	—	442664	442665	—
435793	435793	435793	30937	30937	30937
10 lb (4.54 kg) FORAY	10 lb (4.54 kg) Purple-K	10 lb (4.54 kg) PLUS-FIFTY C	20 lb (9.07 kg) FORAY	20 lb (9.07 kg) Purple-K	20 lb (9.07 kg) PLUS-FIFTY C
4-A:80-B:C	80-B:C	60-B:C	10-A:120-B:C	120-B:C	80-B:C
Type A, Size II Type B, C, Size II	Type B, C, Size II	Type B, C, Size II	Type A, Size II Type B, C, Size III	Type B, C, Size III	Type B, C, Size III
21 seconds	22 seconds	19 seconds	28 seconds	30 seconds	21 seconds
20 ft (6.1 m)	20 ft (6.1 m)	16 ft (4.9 m)	22 ft (6.7 m)	22 ft (6.7 m)	22 ft (6.7 m)
– 65 °F to 120 °F (–54 °C to 49 °C)			–40 °F to 120 °F (–40 °C to 49 °C)		
0.52 lb/sec (0.24 kg/sec)	0.46 lb/sec (0.21 kg/sec)	0.59 lb/sec (0.27 kg/sec)	0.73 lb/sec (0.33 kg/sec)	0.67 lb/sec (0.30 kg/sec)	0.99 lb/sec (0.45 kg/sec)
17 lb, 0 oz (7.73 kg)	17 lb, 14 oz (8.13 kg)	17 lb, 14 oz (8.13 kg)	32 lb, 2 oz (14.60 kg)	32 lb, 2 oz (14.60 kg)	32 lb, 2 oz (14.60 kg)
20 1/2 in. (520 mm)			22 1/2 in. (572 mm)		
8 1/4 in. (210 mm)			9 1/2 in. (241 mm)		
5 1/4 in. (135 mm)			7 7/32 in. (183 mm)		
80 ft <sup>2</sup> (7.4 m <sup>2</sup> ) 200 ft <sup>2</sup> (18.6 m <sup>2</sup> )	80 ft <sup>2</sup> (7.4 m <sup>2</sup> ) 200 ft <sup>2</sup> (18.6 m <sup>2</sup> )	60 ft <sup>2</sup> (5.6 m <sup>2</sup> ) 150 ft <sup>2</sup> (13.9 m <sup>2</sup> )	120 ft <sup>2</sup> (11.1 m <sup>2</sup> ) 300 ft <sup>2</sup> (27.9 m <sup>2</sup> )	120 ft <sup>2</sup> (11.1 m <sup>2</sup> ) 300 ft <sup>2</sup> (27.9 m <sup>2</sup> )	80 ft <sup>2</sup> (7.4 m <sup>2</sup> ) 200 ft <sup>2</sup> (18.6 m <sup>2</sup> )

Approvals: DOT, USCG (All Models with proper bracket)

Hydrostatic Test Requirement: Once every 12 years (All Models)

**Note:** VB denotes with vehicle bracket

## Description (Continued)

15. Large, easy-to-scan bar coded model and UL/ULC serial numbers simplify inspection and maintenance record keeping.
16. Valve subassemblies are 100% tested for functionality before final assembly.
17. SENTRY extinguishers are vacuum-filled at the factory to precise filling tolerances.
18. 100% leak tested utilizing mass spectrometry technology at pressures of 195 psi (13.4 bar), and 125 psi (8.6 bar) for 2 1/2 lb units.
19. Injection molded nozzle tips are designed to tight specifications and maximize the suppressing capabilities of the particular model and agent.
20. SENTRY extinguishers are shipped from the factory in individual recyclable corrugated cardboard cartons; designed and field tested to help ensure your extinguishers arrive undamaged and ready for operation. The glued one-piece cartons have carrying handles and a pressure gauge inspection port.
21. All SENTRY extinguisher cartons are properly labeled according to the latest DOT regulations for ease of shipping in the field.
22. ANSUL dry chemical suppressing 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.
23. As a final quality control step, SENTRY extinguishers are randomly sampled for performance testing, which includes weight percent discharge and discharge times.

## Agent Properties

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

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

**PLUS-FIFTY C** – A sodium bicarbonate-based agent for use on Class B (flammable liquids and gases) fires and Class C (electrical) conductivity.

## Ordering Information

For fire protection assistance, see your nearest authorized ANSUL distributor listed in your local yellow pages and at [www.ansul.com](http://www.ansul.com) or contact your local ANSUL sales representative.

**Note:** The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

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