

# SENTRY® DRY CHEMICAL HAND PORTABLE EXTINGUISHERS

Data/Specifications



## FEATURES

- Economically priced
- 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 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

## APPLICATIONS

SENTRY® dry chemical 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. 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, welding areas, machinery, apartment buildings, parking garages, aircraft servicing areas, material handling vehicles, and many others.

## 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. Ansul'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. The powder paint process used by Ansul 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 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 extinguisher handles 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. Aluminum alloy hose ferrules are coated with Stalgard, to resist oxidation.
13. SENTRY extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.
14. Metal ring pins 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. (Optional multilingual nameplates are also available.)
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 filling tolerances.
19. Pressurized to 195 PSI, and 100% leak tested utilizing mass spectrometry technology.
20. Injection molded nozzle tips are designed to tight specifications and maximize the extinguishment capabilities of the particular model and agent.
21. SENTRY 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.
22. All SENTRY extinguisher cartons are properly labeled according to the latest DOT regulations for ease of shipping in the field.
23. Ansul's dry chemical extinguishing agents are manufactured from the 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.

## AGENT

**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.

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

## ORDERING INFORMATION

For fire protection assistance, see your nearest authorized Ansul distributor listed in your local yellow pages or contact your Ansul sales representative.

**SPECIFICATIONS**

	SENTRY 2 1/2		SENTRY 5		SENTRY 10		SENTRY 20	
<b>Dry Chemical Extinguishers</b>								
<b>Model</b>	A02/A02VB C02VB	A05/A05VB A05/A05VB	A10H A10T	A10H A10T	PK10	PK20		
<b>Extinguisher Part No.</b>	429000/ 429101	429002/ 429103	429008	429003	429009	429011		
<b>Bracket Part No.</b>	24610	429146	429146	30865	30865	30937		
<b>Agent Capacity</b>	2 1/2 lb. (1.13 kg) FORAY PLUS-FIFTY C	5 lb. (2.27 kg) FORAY PLUS-FIFTY C	5 lb. (2.27 kg) Purple-K PLUS-FIFTY C	10 lb. (4.54 kg) FORAY PLUS-FIFTY C	10 lb. (4.54 kg) Purple-K PLUS-FIFTY C	20 lb. (9.07 kg) Purple-K PLUS-FIFTY C		
<b>U.L. Rating</b>	1-A-10:BC	3-A-40:BC	3-A-10:BC	10-A-60:BC	80-BC	120-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 A, Size II Type B, C, Size II	Type B, C Size II	Type B, C, Size III	Type A, Size II Type B, C, Size III	Type B, C, Size III
<b>Discharge Time</b>	9 seconds	14 seconds	17 seconds	21 seconds	24 seconds	30 seconds	28 seconds	21 seconds
<b>Maximum Effective Range</b>	11 ft. (3.4 m)	14 ft. (4.3 m)	16 ft. (4.9 m)	19 ft. (5.8 m)	19 ft. (5.8 m)	22 ft. (6.7 m)	22 ft. (6.7 m)	22 ft. (6.7 m)
<b>Operating Temperature Range</b>	-40 °F to 120 °F (-40 °C to 49 °C)	-65 °F to 120 °F (-54 °C to 49 °C)	-40 °F to 120 °F (-40 °C to 49 °C)	-40 °F to 120 °F (-40 °C to 49 °C)				-40 °F to 120 °F (-40 °C to 49 °C)
<b>Agent Flow Rate</b>	.31 lb./sec. (14 kg/sec.)	.38 lb./sec. (17 kg/sec.)	.30 lb./sec. (14 kg/sec.)	.52 lb./sec. (24 kg/sec.)	.48 lb./sec. (22 kg/sec.)	.65 lb./sec. (29 kg/sec.)	.76 lb./sec. (34 kg/sec.)	.66 lb./sec. (31 kg/sec.)
<b>Charged Weight (with agent)</b>	5 lb. (2.27 kg)	9 lb., 14 oz. (4.15 kg)	9 lb., 14 oz. (4.15 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)
<b>Dimensions: Height</b>	14 1/4 in. (362 mm)	17 in. (432 mm)	17 in. (432 mm)	18 1/2 in. (470 mm)	18 1/2 in. (470 mm)	22 1/2 in. (572 mm)	22 1/2 in. (572 mm)	22 1/2 in. (572 mm)
<b>Width</b>	5 1/2 in. (140 mm)	8 1/2 in. (216 mm)	8 1/2 in. (216 mm)	8 1/2 in. (216 mm)	8 1/2 in. (216 mm)	9 1/2 in. (241 mm)	9 1/2 in. (241 mm)	9 1/2 in. (241 mm)
<b>Depth</b>	3 3/8 in. (86 mm)	4 7/16 in. (113 mm)	4 7/16 in. (113 mm)	5 in. (127 mm)	5 27/32 in. (148 mm)	5 27/32 in. (148 mm)	7 7/32 in. (183 mm)	7 7/32 in. (183 mm)
<b>Fire Suppression Capability* Operator: Novice Experienced</b>	10 sq. ft. 25 sq. ft.	40 sq. ft. 100 sq. ft.	60 sq. ft. 150 sq. ft.	60 sq. ft. 150 sq. ft.	80 sq. ft. 200 sq. ft.	120 sq. ft. 300 sq. ft.	120 sq. ft. 300 sq. ft.	80 sq. ft. 200 sq. ft.

NOTE: VB denotes with vehicle bracket  
 \* Underwriters Laboratories classifies a "novice operator" as one who has little or no experience in operating a fire extinguisher  
 Listings: U.L. (All Models)  
 Approvals: D.O.T., U.S.C.G. (All Models with proper bracket)  
 Hydrostatic Test Requirement: Once every 12 years (All Models)  
 Operating Pressure: 195 PSI (13.4 bar)

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