

## Dry Chemical Hand Portable Fire Extinguishers

### Features

- Meets or exceeds requirements of ANSI/UL 299 and 711, and ULC S504 and S508
- USCG approved with proper bracket
- Simple operation and maintenance
- Trilingual, glare-resistant, one-piece mylar nameplates (English, French, Spanish)
- 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, and videos are available for training purposes
- Six-year limited warranty from date of delivery to original end-user purchaser
- Sold and serviced through a network of independent distributors
- 2 1/2 lb and 5 lb units are also available with vehicle bracket attached and packaged with extinguisher

### Application

SENTRY dry chemical extinguishers are designed for the protection of light and ordinary hazards. These compact and portable extinguishers are designed for commercial and 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

SENTRY shells are produced by a cold deep draw process which yields a seamless steel cylinder with a high tensile strength.

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.

The collar and specially pre-formed bottom enclosure are MIG welded to produce a smooth, high integrity weld.

Extinguisher shells are 100% factory air tested to a minimum of 720 psi (49.6 bar) for 5 lb, 10 lb, and 20 lb models and 375 psi (25.8 bar) for 2 1/2 lb. models.



012158

Proprietary metal finishing equipment and a two-coat powder paint system 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.

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.

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 super durable polyester top coat is applied.

Easy grip extinguisher handles are designed for maximum portability, allowing operators to fight the fire without removing work gloves.

SENTRY extinguisher valve bodies are made from a durable extruded aluminum alloy.

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.

Rugged all-steel pick-up tubes help provide proper and dependable agent flow through the valve body.

SENTRY extinguishers have large, color-coded pressure gauges which provide a quick visual indication of unit readiness.

Large 1 1/4 in. (32 mm) diameter 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.

One piece, trilingual, 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, inspection, operating temperature, and model information.

## Description (Continued)

Large, easy-to-scan QR coded model and UL/ULC serial numbers simplify inspection and maintenance record keeping.

Valve subassemblies are 100% tested for functionality before final assembly.

SENTRY extinguishers are vacuum-filled at the factory to precise filling tolerances.

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.

Injection molded nozzle tips are designed to tight specifications and maximize the suppressing capabilities of the particular model and agent.

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.

All SENTRY extinguisher cartons are properly labeled according to the applicable DOT and TC regulations for ease of shipping in the field.

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.

As a final quality control step, SENTRY extinguishers are randomly sampled for performance testing, which includes weight percent discharge and discharge times.

## Agent Properties

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

**BC Suppressing Agent** – 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 SENTRY Distributor.

Safety Data Sheets (SDS) are available at [www.FireProductSDS.com](http://www.FireProductSDS.com)

**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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## Specifications



Dry Chemical Extinguishers	<b>SENTRY 2 1/2</b>  012159		<b>SENTRY 5</b>  012160, 012161		
<b>Model</b>	<b>A02S</b>	<b>A02S VB</b>	<b>AA05S-1</b>	<b>AA05S-1 VB</b>	<b>PK05S</b>
<b>Extinguisher Part No.<sup>1</sup> Domestic</b>	438732	438735	442257	442258	442253
<b>Extinguisher Part No.<sup>1</sup> International</b>	438946	442656	442286	442297	442301
<b>Bracket Part No.</b>	24610	24610	429146	429146	429146
<b>Agent Capacity</b>	2 1/2 lb (1.13 kg) ABC	2 1/2 lb (1.13 kg) ABC	5 lb (2.27 kg) ABC	5 lb (2.27 kg) ABC	5 lb (2.27 kg) Purple-K
<b>UL/ULC Rating</b>	1-A:10-B:C	1-A:10-B:C	3-A:40-B:C	3-A:40-B:C	60-B:C
<b>Coast Guard Classification</b>	Type B, C, Size I	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	9 seconds	14 seconds	14 seconds	17 seconds
<b>Maximum Effective Range</b>	11 ft (3.4 m)	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)	0.31 lb/sec (0.14 kg/sec)	0.36 lb/sec (0.16 kg/sec)	0.36 lb/sec (0.16 kg/sec)	0.30 lb/sec (0.14 kg/sec)
<b>Charged Weight with agent</b>	5 lb (2.27 kg) ABC	5 lb (2.27 kg) ABC	9 lb, 1 oz (4.12 kg) ABC	9 lb, 1 oz (4.12 kg) ABC	9 lb, 1 oz (4.12 kg) Purple-K
<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>2</sup></b>					
<b>Novice Operator:</b>	10 ft <sup>2</sup> (0.93 m <sup>2</sup> )	10 ft <sup>2</sup> (0.93 m <sup>2</sup> )	40 ft <sup>2</sup> (3.7 m <sup>2</sup> )	40 ft <sup>2</sup> (3.7 m <sup>2</sup> )	60 ft <sup>2</sup> (5.6 m <sup>2</sup> )
<b>Experienced Operator:</b>	25 ft <sup>2</sup> (2.3 m <sup>2</sup> )	25 ft <sup>2</sup> (2.3 m <sup>2</sup> )	100 ft <sup>2</sup> (9.3 m <sup>2</sup> )	100 ft <sup>2</sup> (9.3 m <sup>2</sup> )	150 ft <sup>2</sup> (13.9 m <sup>2</sup> )

\* International Part Numbers are used for shipping outside of the domestic United States per GHS labeling requirements. All product part numbers are identical in construction and approval agency testing per data specifications.

<sup>1</sup> UL and ULC Listed. English, French, and Spanish nameplate.

<sup>2</sup> Underwriters Laboratories classifies a novice operator as one who has little or no experience in operating a fire extinguisher.

## Specifications (Continued)

	<b>SENTRY 10</b>  012158, 012157			<b>SENTRY 20</b>  012156, 012155		
<b>Model</b>	<b>AA10S</b>	<b>PK10S</b>	<b>C10S</b>	<b>AA20-1</b>	<b>PK20</b>	<b>C20</b>
<b>Extinguisher Part No.<sup>1</sup> Domestic</b>	436500	436494	436497	434747	429011	429017
<b>Extinguisher Part No.<sup>1</sup> International</b>	442662	442663	—	442664	442665	—
<b>Bracket Part No.</b>	435793	435793	435793	30937	30937	30937
<b>Agent Capacity</b>	10 lb (4.54 kg) ABC	10 lb (4.54 kg) Purple-K	10 lb (4.54 kg) BC	20 lb (9.07 kg) ABC	20 lb (9.07 kg) Purple-K	20 lb (9.07 kg) BC
<b>UL/ULC Rating</b>	4-A:80-B:C	80-B:C	60-B:C	10-A:120-B:C	120-B:C	80-B:C
<b>Coast Guard Classification</b>	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
<b>Discharge Time</b>	21 seconds	22 seconds	19 seconds	28 seconds	30 seconds	21 seconds
<b>Maximum Effective Range</b>	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)
<b>Operating Temperature Range</b>	-65 °F to 120 °F (-54 °C to 49 °C)			-40 °F to 120 °F (-40 °C to 49 °C)		
<b>Agent Flow Rate</b>	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)
<b>Charged Weight with agent</b>	17 lb, 0 oz (7.73 kg) ABC	17 lb, 14 oz (8.13 kg) Purple-K	17 lb, 14 oz (8.13 kg) BC	32 lb, 2 oz (14.60 kg) ABC	32 lb, 2 oz (14.60 kg) Purple-K	32 lb, 2 oz (14.60 kg) BC
<b>Dimensions:</b>						
<b>Height</b>	20 1/2 in. (521 mm)			22 1/2 in. (571 mm)		
<b>Width</b>	8 1/4 in. (210 mm)			9 1/2 in. (241 mm)		
<b>Depth</b>	5 1/4 in. (133 mm)			7 7/32 in. (183 mm)		
<b>Fire Suppression Capability<sup>2</sup></b>						
<b>Novice Operator:</b>	80 ft <sup>2</sup> (7.4 m <sup>2</sup> )	80 ft <sup>2</sup> (7.4 m <sup>2</sup> )	60 ft <sup>2</sup> (5.7 m <sup>2</sup> )	120 ft <sup>2</sup> (11.1 m <sup>2</sup> )	120 ft <sup>2</sup> (11.1 m <sup>2</sup> )	80 ft <sup>2</sup> (7.4 m <sup>2</sup> )
<b>Experienced Operator:</b>	200 ft <sup>2</sup> (18.6 m <sup>2</sup> )	200 ft <sup>2</sup> (18.6 m <sup>2</sup> )	150 ft <sup>2</sup> (13.9 m <sup>2</sup> )	300 ft <sup>2</sup> (27.9 m <sup>2</sup> )	300 ft <sup>2</sup> (27.9 m <sup>2</sup> )	200 ft <sup>2</sup> (18.6 m <sup>2</sup> )

Hydrostatic test requirement: Once every 12 years (all models)

**Note:** VB denotes with vehicle bracket