



# TWO TIMES THE FIGHT

Twin-Agent Fire Suppression Systems



# A TOUGH SOLUTION FOR TOUGH FIRES

No fire should be taken lightly. Yet, there are some that go far beyond a typical fire. These extremely hazardous fires require top-level skills and innovative agents. Fortunately, ANSUL® Twin-Agent Fire Suppression Systems provide proven technology to fight large flammable liquid and gas fires. Tackle these tough and dangerous fires with the toughest one-two punch available.



## **ADVANCING THE FIRE SUPPRESSION INDUSTRY**

Ansul, the pioneer of dry chemical fire protection, introduced the twin-agent concept of combining the fast knockdown capability of dry chemical with the securing power of aqueous film-forming foam (AFFF). It took revolutionary thinking — the kind of innovation you expect from an industry leader backed by a worldwide network of knowledgeable distributors. Providing specialized products for the toughest situations, Ansul is your fire protection partner.

**MAXIMUM FIRE-STOPPING POWER ■ SINGLE-PERSON OPERATION**

**EXTENSIVE TESTING ■ HIGH-QUALITY CONSTRUCTION**

**EXTREME VERSATILITY ■ COMPLETELY SELF-CONTAINED**

# THE POWER OF TWO

Especially challenging Class B fires require rapid knockdown plus added hazard security. This “double duty” can be accomplished by one system with the capabilities of dry chemical and foam fire extinguishing agents. This combination is particularly effective on flammable liquid fires.

## TWIN-AGENT FIRE SUPPRESSION SYSTEM

An ANSUL Twin-Agent System combines two proven, powerful agents: ANSUL Purple-K dry chemical agent and ANSULITE® AFFF. A potassium bicarbonate-based dry chemical, Purple-K provides rapid knockdown and suppression of flammable liquid fires. ANSULITE agent is a synthetic aqueous film-forming foam (AFFF) that blankets the fuel with a thin film that prevents the escape of flammable vapors and cools the site.

One trained operator can successfully fight three-dimensional, running, and pressure fires. A twin-agent attack provides the most effective suppressing and securing capability known for many flammable liquid fires. From the 450/50 model (450 lbs./204 kg dry chemical and 50 gallons/189 L AFFF) up to the 1350/200 model, Ansul has a size to fit your unique needs.

## TWIN-AGENT SYSTEM COMPONENTS AND OPERATION:

- 1 Separate storage tanks** filled with ANSUL Purple-K and ANSULITE AFFF
- 2 Nitrogen cylinders** to provide pressurization to the tanks and expel the agents
- 3 Twin hose lines** to deliver the agents from the storage tank to the twin nozzle assembly
- 4 Nozzle assembly** to control and direct the flow of agents to the fire — either independently or simultaneously\*
- 5 Manual and/or pneumatic actuation devices**



\*Standard side-by-side nozzle shown

# SIMPLE. VERSATILE. EFFECTIVE. TWIN-AGENT.

The ANSUL Twin-Agent System is designed to be actuated and operated by one person. If the system has more than one hose reel, additional personnel can be added to fight the fire. Two agents; one firefighter. Plus, extreme versatility when fighting many types of fires.

## OPTIONAL EQUIPMENT—GET EXACTLY WHAT YOU NEED

- **HC-TS-PKW package** — Special 450/100 System option includes Williams HYDRO-CHEM™ nozzle, PKW (Purple-K) dry chemical, and THUNDERSTORM® alcohol-resistant AFFF foam solution
- **Over/Under nozzles** — The dry chemical nozzle sits atop the AFFF nozzle, providing a balanced attack; flow rates maximize each agent's capabilities
- **Corrosion control package** — A special epoxy coating protects against the effect of offshore, marine, and coastline salt spray; corrosion-resistant brass on all fittings and pipe
- **Protective covers** — Protect your investment against wind, sand, dust, and other weather elements with a heavy-duty cover
- **Electric hose rewind** — Use on vehicle applications when accessibility to the hose reel is limited
- **Single-point lift bar** — Eases lifting and transporting
- **AFFF tank heater** — Operational in freezing temperatures

## POWER WHERE YOU NEED IT

ANSUL Twin-Agent Systems are available in skid, trailer, and vehicle-mounted variations. Pre-engineering allows you to build the exact capacity system to protect your hazard area, and your system is warranted against defects in workmanship or materials.

## THESE INDUSTRIES BENEFIT MOST FROM AN ANSUL TWIN- AGENT SYSTEM:

### PETROLEUM PETROCHEMICAL

- Loading Racks
- Refinery Processing Equipment
- Product Transfer and Storage Areas
- Offshore Platforms
- Process Areas

### MARINE

- Tanker Decks
- Machinery Spaces
- Loading Docks

### NATURAL GAS

- LNG Tankers
- Natural Gas Plants
- Process Piping
- Vaporizers
- Compressors
- Liquefaction Plants
- Sump Areas
- Truck Loading Areas

### AVIATION

- Hangars
- Helipads
- Runways
- Service Areas

## TWIN-AGENT SIZES AND SPECIFICATIONS

	<b>MODEL 450/50</b>	<b>MODEL 450/100</b>	<b>MODEL 900/100 (TWIN REEL)</b>	<b>MODEL 1350/200 (TWIN REEL)</b>
<b>AGENCY CAPACITY</b>	450 lb. (204 kg) “Purple K” Dry Chemical  50 gal. ANSULITE AFFF (189 L) in 6% solution	450 lb. (204 kg) “Purple K” Dry Chemical  100 gal. ANSULITE AFFF (378 L) in 6% solution	900 lb. (408 kg) “Purple K” Dry Chemical  100 gal. ANSULITE AFFF (378 L) in 6% solution	1350 lb. (612 kg) “Purple K” Dry Chemical  200 gal. ANSULITE AFFF (757 L) in 6% solution
<b>DIMENSIONS</b>	Height: 48 in. (122 cm)  Width: 48 in. (122 cm) Length: 87 in. (221 cm)	Height: 56 1/2 in. (144 cm)  Width: 48 in. (122 cm) Length: 92 in. (234 cm)	Height: 56 1/2 in. (144 cm)  Width: 70 in. (178 cm) Length: 115 in. (292 cm)	Height: 77 in. (196 cm) (w/ lift bar) 65 in. (165 cm) (w/o lift bar)  Width: 81 in. (206 cm) Length: 119 in. (302 cm)
<b>HOSE LENGTH</b>	1 Hose Reel with 100 ft. (30 m) of twinned hose	1 Hose Reel with 100 ft. (30 m) of twinned hose	2 Hose Reels each with 100 ft. (30 m) of twinned hose	2 Hose Reels each with 100 ft. (30 m) of twinned hose
<b>CHARGED WEIGHT</b>	2585 lb. (1172 kg)	3100 lb. (1406 kg)	4770 lb. (2164 kg)	8240 lb. (3738 kg)
<b>RATE OF FLOW DRY CHEMICAL</b>	5 lb./sec. (2.26 kg/sec.)	5 lb./sec. (2.26 kg/sec.)	5 lb./sec./nozzle (2.26 kg/sec./nozzle)	5 lb./sec./nozzle (2.26 kg/sec./nozzle)
AFFF	60 gpm (227 Lpm)	60 gpm (227 Lpm)	60 gpm/nozzle (227 Lpm/nozzle)	60 gpm/nozzle (227 Lpm/nozzle)
<b>DISCHARGE TIME DRY CHEMICAL</b>	1 min. 30 sec.	1 min. 30 sec.	3 min.	4 min. 30 sec.
AFFF	50 sec.	1 min. 40 sec.	1 min. 40 sec.	3 min. 30 sec.
<b>RANGE DRY CHEMICAL (CALM WIND CONDITIONS)</b>	27 feet (8.2 m) (min.)			
AFFF (CALM WIND CONDITIONS)	18 feet (5.5 m) (min.)			
<b>NITROGEN CYLINDERS</b>	1-110 & 1-400 cu. ft. (3.1/11.3 cu. m) nitrogen cylinders	2-400 cu. ft. (11.3 cu. m) nitrogen cylinders	3-400 cu. ft. (11.3 cu. m) nitrogen cylinders	5-400 cu. ft. (11.3 cu. m) nitrogen cylinders
<b>ACTUATION</b>	Both cylinders opened simultaneously by cartridge actuator located on unit or remotely (such as truck cab).	Both cylinders opened simultaneously by cartridge actuator located on unit or remotely (such as truck cab).	All cylinders opened simultaneously by cartridge actuator located on unit or remotely (such as truck cab).	All cylinders opened simultaneously by cartridge actuator located on unit or remotely (such as truck cab).
<b>CAPABILITY</b>	Suppress and secure 1500 sq. ft. (139 m <sup>2</sup> ) flammable liquid surface within 60 seconds. 1-person operation.	Suppress and secure 3000 sq. ft. (279 m <sup>2</sup> ) flammable liquid surface within 90 seconds. 1-person operation.	Suppress and secure 3000 sq. ft. (279 m <sup>2</sup> ) flammable liquid surface within 60 seconds. 2-person operation.	Suppress and secure 6000 sq. ft. (557 m <sup>2</sup> ) flammable liquid surface within 90 seconds. 2-person operation.



# BEYOND FIGHTING FIRES

## **ANSUL TRULY IS YOUR TOTAL FIRE PROTECTION SOURCE**

From hazard analysis through specification, installation, testing, and service; Ansul remains your trusted source for everything fire protection. Ansul has been successfully meeting challenges since 1939, and continues to lead the way today. Ansul is fire protection.

## **NEVER RESTING**

Ansul is constantly testing, developing, and improving new and existing fire protection equipment. Our testing facilities in Marinette, WI, are unlike any other, and our in-field research is never ending. In addition, Ansul provides technical assistance, from hazard area analysis to system design. Ansul offers a wide range of training tools, including technical manuals and literature, interactive programs, and hands-on training.

## **ANSUL IS EVERYWHERE**

One of the world's finest fire protection distributors is likely nearby. Your expertly trained, local Ansul representative can handle whatever fire protection need you have. Receive qualified installation and service from an experienced fire protection professional.

The people, products, expertise, and dedication you expect are ready to handle your challenge — from start to finish. Ansul is your fire protection partner.





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