



A Tyco International Company

# RED LINE HAND PORTABLE EXTINGUISHERS MODELS 20, 30 (AUSTRALIA/NZ VERSION)

Data/Specifications

## FEATURES

- Rugged, durable, reliable fire protection
- Ergonomically designed for maximum operator performance
- Meets or exceeds requirements of AS/NZS 1841.5
- Simple and safe operation
- Maintenance checks can be easily made on every moving part
- Field rechargeable
- Two sizes (20 and 30) available with many options to suit your needs
- Choice of dry chemical agents to satisfy specific protection requirements
- First response fire fighting training available at the ANSUL Fire School or through trained distributors
- Manual, parts lists and training video available
- Twelve-year limited warranty
- Sold and serviced through our network of independent distributors in every state and most countries throughout the world

## APPLICATION

RED LINE dry chemical extinguishers are designed for the protection of ordinary and high risk hazards. This hand portable extinguisher is used in industries where the occurrence or possibility of fire is high. The RED LINE extinguisher has set the standard for reliable fire protection in many industries and applications including refining, petrochemical, oil and natural gas production, mining, transportation, utilities, metal processing, paint process areas, welding areas, material storage areas and many others.

## DESCRIPTION

- The rugged dry chemical shell is a three-piece steel assembly consisting of a seamless welded tube with a spun top, a bottom closure and a machined collar.
- Forged, non-slip aluminum handle positions the extinguisher at optimum 45° angle for easy carrying.
- Each finished shell assembly is hydrostatically tested at three times the operating pressure (600 psi (41.4 bar)) and is designed to withstand a pressure of no less than six times the normal operating pressure.
- AS Approval, rating, and model information are permanently marked on the fill collar using dot matrix marking technology.
- Cartridge receiver is made of cast aluminum with a stainless steel insert to prevent thread wear.
- Stainless steel puncture pin is sealed with impregnated felt washers which seal against moisture and provide lubrication to the pin.
- Large three-inch fill opening allows for fast and easy recharge.
- Large forged aluminum fill cap with indicator seals the shell, protecting the agent from contamination. A tamper seal may also be attached to the fill cap to help prevent tampering with the agent.



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- Flat gasket and quad ring on fill cap provide a gas and moisture tight seal.
- Handle is spring loaded to prevent movement during vibration.
- Hanger attachment is located on extinguisher to allow for easy removal from wall bracket.

- The vinyl label is designed with a highly visible white identification band denoting a powder gas type fire extinguisher.



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- The front operating label has easy to understand instructions and pictograms for the inexperienced operator.
- The back portion of the label contains: approvals; inspection and maintenance; after-use; recharge; and other pertinent information.
- Hose couplings are corrosion resistant aluminum alloy. The shell connection coupling is equipped with an O-ring to provide a proper seal.
- Shell connection coupling is internally machined to accept an inspection seal and retaining ring.

- Nozzle body is cast aluminum with component parts of stainless steel and other corrosion resistant materials.

- Nozzle plunger assembly is provided with two guide bushings to assure proper seating when used with intermittent discharge, thus providing gas and water tightness.



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## DESCRIPTION (Continued)

- Nozzle design directs the nozzle body downward when the nozzle is squeezed thus directing the agent stream at the base of the fire and increasing the chance of extinguishment.
- Nozzle tips feature a converging-diverging design to give an expanded round stream of dry chemical.
- The steel gas tube is designed with two rubber check valves clamped in place. The check valves, which cover the gas discharge holes, produce multidirectional gas streams to fluidize the dry chemical agent.
- Agent outlet elbow is machined from low carbon steel barstock and allows for maximum discharge of the dry chemical when the extinguisher is held at the normal 45° angle.
- Discharge hose is ethylene propylene diamine and is UL 92 approved for use at temperatures of -54 °C to 49 °C.
- Completed assembly is subjected to a final production air test of 240 psi (16.6 bar) and stamped to indicate year of manufacture.
- Expellant gas cartridges are fabricated of one-piece spun steel in accordance with DOT 3E-1800. Cartridges are Workcover approved.



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Model	I-A-20-G	I-K-20-G	I-A-30-G	I-K-30-G
Agent	FORAY	Purple-K	FORAY	Purple-K
Capacity	7.6 kg	8.0 kg	11.3 kg	12.0 kg
AS Rating	4A:60B:E	80B:E	10A:60B:E	80B:E
Discharge Time	20 sec	22 sec	25 sec	32 sec
Flow Rate	0.41 kg/sec	0.41 kg/sec	0.46 kg/sec	0.45 kg/sec
Effective Range	6.1 m	9.1 m	6.1 m	9.1 m
CR Option	Available			
Approvals	AS/NZS 1841.5			
Charged Weight	15.9 kg	16.3 kg	22.5 kg	23.4 kg
Dimensions:				
Height	521 mm	521 mm	572 mm	572 mm
Width	264 mm	264 mm	283 mm	283 mm
Depth	178 mm	178 mm	203 mm	203 mm
Hose ID	13 mm	13 mm	16 mm	16 mm
Hose Length	803 mm	803 mm	905 mm	905 mm
Shell OD	150 mm	150 mm	175 mm	175 mm

- Cartridges are sealed with a brass seal assembly utilizing a copper seat. The seal assembly has "ANSUL" printed on it indicating the seal meets or exceeds ANSUL quality levels and AS requirements.
- Carbon dioxide cartridge seal has a safe rupture pressure range of 4050 to 5000 psi (279 to 310 bar) in a temperature range of 91 °C to 99 °C.
- Standard models are equipped with CO<sub>2</sub> cartridges and receivers which are listed and approved for operation in environments with temperatures between -40 °C to 48.8 °C.
- Painted steel parts are prepared by going through a series of surface preparation steps, including degreasing, an acid pickling process, zinc phosphate bonding and non-chromate sealing.
- The parts are then painted using an electrostatically applied polyester powder coating and oven cured.
- Cartridge guard is made of a composite consisting of fiber-filled polypropylene and various additives to resist UV degradation and maintain strength and integrity.
- Composite guard is designed with the nozzle holster as an integral part of the one-piece construction. It contains a hose retainer tab which can be used to attach the visual inspection seal. The guard is designed to prevent its removal unless the inspection seal is broken.



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## OPTION

ANSUL extinguishers are available with a corrosion resistant option to customize the extinguisher to meet your needs.

### Corrosion Resistant (CR) Models

- In addition to the standard surface preparation procedures, the steel parts are primed using a corrosion resistant epoxy primer.
- The top coat is a polyester paint applied as a powder and oven cured. The dry film is continuous and is a minimum thickness of 1.5 mils.
- The hose couplings, fill cap, carrying handle, nozzle body, nozzle lever, nozzle tip and cartridge receiver push lever are black anodized for added corrosion resistance.
- The cartridge receiver body is painted with an epoxy paint for added protection in corrosive environments.

## AGENTS

### FORAY Dry Chemical

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

### Purple-K Dry Chemical

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