



EVERSAFE®

Your Solution to *FIRE SAFETY*

PORTABLE FIRE EXTINGUISHER

MALAYSIAN STANDARD



EDITION 2019



1 About Us:

Eversafe Extinguisher Sdn. Bhd. incorporated in year 1979, a member of Leeden National Oxygen Ltd, Singapore. Our production of fire-fighting equipment is housed within 2.844 acres of manufacturing and R&D facilities which allows us to offer an extensive range of high-quality products and systems.

2 Vision:

We aim to be the global leader in the production and marketing of firefighting equipment, systems, and solutions, through the use of innovative design.



3 Core Values:



Quality First



Teamwork



Integrity Always



Positive Change



Safety is Our Priority



Provide Solutions



Customer Focus

4 Quality Control:

Manufacturing process and quality management systems have been approved to BS EN ISO 9001 by British Standards Institution.

5 Manufacturer/Distributor of:

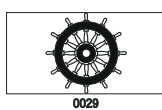
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|--|---|--|
| ■ Portable and Mobile Fire Extinguishers | ■ Nozzle | ■ NAF S227 Fire Extinguishing System (FM200 Alternative) |
| ■ Fire Hose Reels | ■ Smoke Alarm | ■ NAF S125 Fire Extinguishing System |
| ■ Landing Valves | ■ Fire Blanket | ■ Inert Gases Fire Extinguishing System |
| ■ Breeching Inlets | ■ Canvas Hose | ■ Kerr Fire Foam Compound |
| ■ Hydrant | ■ Cabinets | ■ Wet Chemical Fire Suppression System |
| | ■ CO ₂ Fire Extinguishing System | |

6 Product Standards/Certification/Directives:

Our products are in compliance with the following product standards / certification bodies:

- | | |
|--|--|
| a) American Standard (UL) | h) Marine Equipment Directive, Wheel mark (Apragaz) |
| b) Australian Standard (SAI Global) | i) Offshore Special Requirement - Sarawak Shell Bhd / Sarawak Shell Petroleum Co (SSB / SSPC) |
| c) European Standard (BSI) | j) Kuwait National Petroleum Co (KNPC) |
| d) Malaysian Standard (SIRIM / IKRAM) | k) Kuwait Oil Company (KOC) |
| e) Singapore Standard (TÜV SÜD PSB / SETSCO) | |
| f) Construction Product Directive, CPD / CPR (BRE) | |
| g) Pressure Equipment Directive, CE mark (Lloyd's Register) | |

PRODUCT APPROVALS



EVERSAFE® range of Fire Extinguisher is certified to various international standards/directives:

- European Standard – BS EN 3 & BS EN 1866
- Australian Standard – AS/NZS 1841
- Malaysian Standard – MS 1539
- Singapore Standard – SS EN 3
- PED (Pressure Equipment Directive)
- MED (Marine Equipment Directive)

Extinguisher Features

Extinguisher bodies are fully deep drawn from cold rolled steel, and pressure tested to twice the extinguisher's working pressure. Cylinders are externally coated with polyester (with phosphate under treatment) for maximum corrosion resistance and have passed the 480-hours salt spray test.

For extreme environment installations, we recommend the use of our **CR (Corrosion Resistant)** Fire Extinguishers.

Type of Extinguishant:

Dry Chemical Powder (ABC)

Dry Chemical Powder (ABC) is a mixture of highly efficient mono-ammonium phosphate and ammonium sulphate ground to selected particle sizes and made resistant to influences of climate extremes by means of hydrophobing agents. It is a versatile and safe extinguishant, and is ideally suited to environment where the fire hazard is mixed. It also offers fast knockdown, protection against reignition and heat reduction. Multipurpose Dry Chemical Powder (ABC) is effective on Class A (carbonaceous) fire, Class B (flammable liquid) fire and Class C (flammable gas) fire. It is also suitable for use on live electrical fires.

Monnex Powder

Monnex powder is based on potassium bicarbonate-urea complex. Monnex is particularly effective against fire involving alcohols, ketones and esters, which are more difficult for conventional fire fighting agents. Monnex Powder is recommended for high risk situation and should be used when rapid knockdown is required on Class B and C fires. Monnex is particularly suitable for use in refineries, petrochemical complexes and other high hazard areas.

Water

Water, the most commonly used fire extinguishant for Class A fire involving carbonaceous materials such as wood, textiles and paper by cooling the fire and removing the heat needed for combustion.

Foam (AFFF)

Filmfoams (AFFF) are synthetic aqueous film forming foam concentrate consisting of fluorocarbon and hydrocarbon surfactants blended with various solvents, preservatives and stabilisers. The foam forms an aqueous film which helps to prevent the release of fuel vapours while the foam blanket from which the film forming liquid drains excludes oxygen from the fuel surface, extinguishing the fire and preventing re-ignition. The water content of the foam provides a cooling effect. The film forming liquid, although heavier, floats on the surface of the fuel, due to its lower surface tension. Effective on B class hydrocarbon fuel fires such as oil, petroleum, aviation fuels, and is particularly suitable where fast fire knockdown is essential. It is compatible with all dry powders. Its excellent wetting characteristics make it useful in combating Class A fire as well.






Carbon Dioxide (CO₂)

Carbon Dioxide is the ideal agent for use on Class B (flammable liquids) fires. It is non toxic, non conductive and non corrosive inert gas which works by smothering the flames and reducing the oxygen content of the air around fire. CO₂ is safe to use on live electrical fires.

Wet Chemical

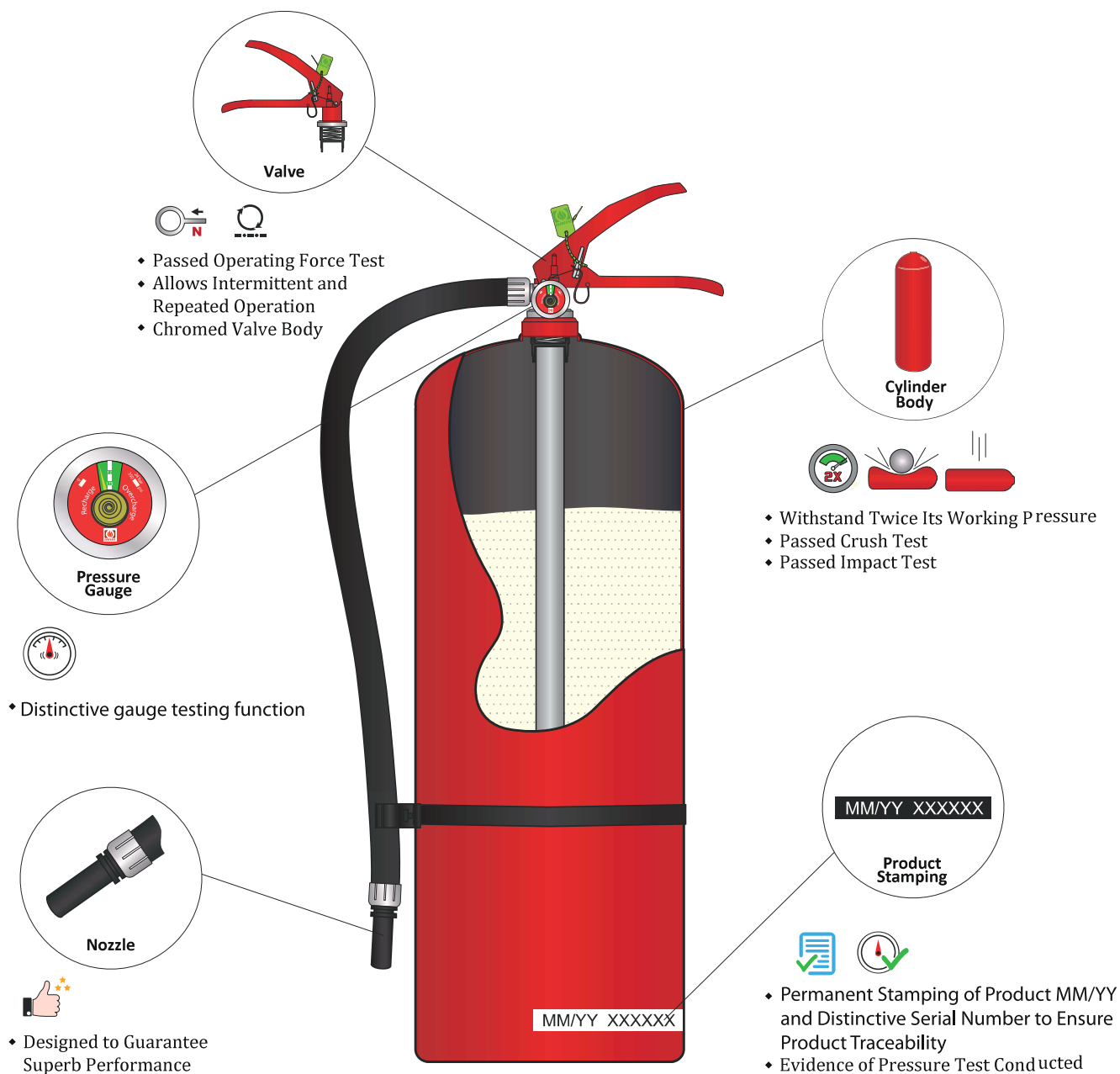
Wet Chemical, an aqueous solution, is suitable for use on Class F fire, which involves cooking oils and fats. It reacts with the burning oil or fat forming a 'blanket' which rapidly knocks the flames out, cools the burning oil and chemically reacts to form a soap-free substance, sealing the surface and preventing re-ignition.

SELECTION CHART FOR USE OF FIRE EXTINGUISHERS

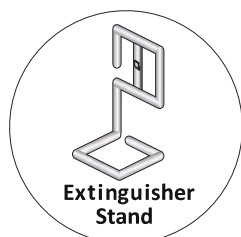
Symbol	Class Of Fire	Descriptions	ABC Powder	BC Powder	Monnex Powder	Water Spray Nozzle	Spray Foam	Foam (Branchpipe)	CO ₂	Wet Chemical
	A	Solid materials	✓			✓	✓	✓		✓
	B	Liquids or liquefiable solids	✓	✓	✓		✓	✓	✓	
	C	Gases	✓	✓	✓					
	E	Electrical Equipment	✓	✓	✓	*	*		✓	
	F	Cooking oil								✓

* Safe if in accidental contact with live electrical equipment. Comply with electrical conductivity test BS EN 3-7, Clause 9 Annex C

Stored Pressure Type Portable Fire Extinguisher



OPTIONAL ACCESSORIES



Display Fire Extinguisher Elegantly in Place of the Conventional Wall Bracket Fixation (for land usage)



Protect Fire Extinguisher from exposure to extreme environment e.g. sunlight, seawater and etc



Protect Fire Extinguisher from exposure to outdoor environment e.g. sunlight, rain, and etc.

Stored Pressure Type ABC Dry Powder Portable Fire Extinguisher



FEATURES

- ✓ Fully deep drawn from cold rolled steel
- ✓ Externally coated with polyester powder
- ✓ Pressure tested to twice the extinguisher's working pressure
- ✓ Passed 480 hours salt spray test



EC-1

EC-2

EC-3

EC-4

EC-6

EC-9

Model	EC-1*	EC-2*	EC-3*	EC-4	EC-6	EC-9
Type	Stored Pressure Type					
Extinguishant	ABC Dry Powder					
Capacity	1 kg	2 kg	3 kg	4 kg	6 kg	9 kg
Propellant	Nitrogen (N ₂)					
Valve	Controllable Non Ferrous Valve with Pressure Indicator					
Body Diameter	79 mm	110 mm	130mm	130 mm	158 mm	178 mm
Overall Height	325 mm	370 mm	425 mm	525 mm	525mm	587mm
Approx. Full Weight	1.7 kg	3.3 kg	4.9 kg	6.3 kg	9.3 kg	12.7 kg
Working Temperature Range	-20°C to + 60°C					
Working Pressure	12 bar					
Test Pressure	25 bar					
Burst Pressure	Exceeds 69 bar					
Approx. Discharge Range	2 m - 3 m	2 m - 4 m	5 m - 6 m	5 m	6 m - 7 m	6 m - 7.5 m
Approx. Discharge Time	9 sec	12 sec	14 sec	17 sec	17 sec	20 sec
Fire Rating (Min)	5A/21B	8A/34B	13A/55B	13A/70B	27A/144B	27A/144B
Fire Class	A, B, C + Electrical					
Internal Coating	Stoving Epoxy Primer					
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating					
Mounting	Plastic Bracket		Metal 'L' Wall Bracket			
Manufactured & Certified to	MS 1539 : Part 1 : 2002					

*Wire bracket mounting available upon request

Stored Pressure Type AFF Foam & Wet Chemical Portable Fire Extinguisher



FEATURES

- ✓ Fully deep drawn from cold rolled steel
- ✓ Pressure tested to twice the extinguisher's working pressure
- ✓ Externally coated with polyester powder
- ✓ Internally coated with "performance polymer alloy" to prevent corrosion
- ✓ Passed 480 hours salt spray test
- ✓ Passed the 35KV electrical conductivity test to MS 1539-1, clause 4.7.4



AF-9Ps



EEK-2s



EEK-6s

Model	AF-9PS	EEK-2s***	EEK-6s
Type	Stored Pressure Type		
Extinguishant	AFF Foam (Premix)	Wet Chemical	Wet Chemical
Capacity	9 litres	2 litres	6 litres
Propellant	Nitrogen (N ₂)		
Valve	Controllable Chrome Plated Brass Valve with Pressure Indicator		
Body Diameter	178 mm	108 mm	158 mm
Overall Height**	625 mm	398 mm	575 mm
Approx. Full Weight	13.7 kg	4.6 kg	13.0 kg
Working Temperature Range	+5°C to +60°C	0°C to +60°C	0°C to +60°C
Working Pressure	12 bar		
Test Pressure	25 bar		
Burst Pressure	Exceeds 69 bar		
Approx. Discharge Range	6 m	> 2 m	> 2 m
Approx. Discharge Time	68 sec	14 sec	55 sec
Fire Rating	13A/183B	5A/5F	8A/75F
Fire Class	A, B + Electrical Safety Test*	A, F + Electrical Safety Test*	A, F + Electrical Safety Test*
Internal Lining	Thermoplastic Powder Coating (PPA)		
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating		
Mounting	Metal 'L' Wall Bracket		
Manufactured & Certified to	MS 1539 : Part 1 : 2002	MS 1539 : Part 5 : 2014	MS 1539 : Part 5 : 2014

*Safe in accidental contact with live electrical equipment. Comply with electrical conductivity test to MS 1539-1, clause 4.7.4

**Overall height measured from bottom up to valve handle

***Pending SIRIM approval

Cartridge Operated Type & Stored Pressure Type ABC & Monnex Dry Powder Portable Fire Extinguisher



FEATURES

- ✓ Fully deep drawn from cold rolled steel
- ✓ Pressure tested to twice the extinguisher's working pressure
- ✓ Externally coated with polyester powder
- ✓ Passed 480 hours salt spray test



PES-9

EC-12Mx

Model	PES-9	EC-12Mx
Type	Gas Cartridge Type	Stored Pressure Type
Extinguishant	ABC Dry Powder	Monnex
Capacity	9 kg	
Propellant	N/A	Nitrogen (N ₂)
CO ₂ Cartridge	150 g	N/A
Valve	Controllable Chromed Plated Brass Headcap with Safety Relief	Controllable Non Ferrous Valve with Pressure Indicator
Body Diameter	178 mm	188 mm
Overall Height	595mm	695mm
Approx. Full Weight	14.2 kg	14.6 kg
Working Temperature Range	-20°C to + 60°C	
Working Pressure	12 bar	
Test Pressure	25 bar	
Burst Pressure	Exceeds 69 bar	
Approx. Discharge Range	6 m	7 m
Approx. Discharge Time	18 sec	23 sec
Fire Rating (Min)	27A/144B	233B
Fire Class	A, B, C + Electrical	B, C + Electrical
Internal Coating	Stoving Epoxy Primer	
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Mounting	Metal 'T' Wall Bracket	Metal 'L' Wall Bracket
Manufactured & Certified to	MS 1539 : Part 1 : 2002	

Stored Pressure Type Carbon Dioxide Gas Portable Fire Extinguisher



ECO-5

ECO-11H

Model	ECO-5	ECO-11H
Type	Stored Pressure Type	
Extinguishant	Carbon Dioxide (CO ₂)	
Capacity	2 kg	5 kg
Operating Head / Valve	Controllable Chrome Plated Brass Valve	
Body Diameter	114 mm	138 mm
Overall Height**	510 mm	765 mm
Approx. Full Weight	7.6 kg	14.8 kg
Working Temperature Range	-20°C to +60°C	
Working Pressure	56 Bar	
Test Pressure	250 Bar	
Safety Disc Pressure	180-200 Bar	
Approx. Discharge Range	3 m	3 m
Approx. Discharge Time	12 sec	16 sec
Fire Rating	21B	55B
Fire Class	B + Electrical	
Cylinder Specification	Steel to ISO 9809	
Discharge Assembly	Swivel Horn Assembly	Hose & Horn Assembly
Mounting	Metal 'L' Wall Bracket	
Paint Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	
Manufactured & Certified to	MS 1539 : Part 1 : 2002	

** overall height measured from bottom up to valve handle



Gas Catridge (TPED)

Weight (g)	External Coating	Applicable for	
150	Epoxy	Portable Fire Extinguishers	PES-9



'T' Wall Bracket

'L' Wall Bracket

Wall Brackets

Model	WBT-01	WBL-01	WBL-02	WBL-03	WBL-04
Type	'T' Wall Brackets		'L' Wall Brackets		
Applicable for	Cartridge Operated Type	2 kg CO ₂	3 kg Dry Powder	4 kg - 12 kg Dry Powder	5 kg CO ₂
Material	Chromed Steel				



Front View



Back View

Wire Brackets

Model	WB-03	WB-05	WB-06
Applicable for	1 kg Dry Powder	2 kg Dry Powder	3 kg Dry Powder
Body Material	Mild Steel		
Strap Material	Stainless Steel		
Type	Wire Brackets		



Front View



Back View

Compact Plastic Brackets

Model	CPB-01	CPB-02
Applicable for	1 kg Dry Powder	2 kg Dry Powder
Material	Plastic	



Dry Powder

Model	EP4X-F
Packaging	25 kg
Storage	Cool and Dry Place



BC Powder

	Monnex Powder
Packaging	25 kg
Storage	Cool and Dry Place



AFFF Compound Refills

Bottle / Drum	Applicable for
0.54L	AF-9Ps
25L	Various Usage
200L	Various Usage



Single Type

Double Type

Fire Extinguisher Stands

Model	ESS	ESD
Type	Single	Double
Mild Steel	Body Material	
Dimension (LxWxH)	330mm x 300mm x 725mm	510mm x 300mm x 725mm



Portable Fire Extinguisher Protective Covers

Model	ECV-01P
Applicable for	9 L , 9 kg, 12 kg, 5 kg, 6.8 kg
Dimension (H) x (Ø)	711 mm x 241 mm
Window	85 mm x 135 mm
Material	Waterproof Vinyl
Finishing	Red



Fire Extinguisher Cabinets

Model	ECP-01M	ECP-02M
Body Material	0.9 mm Mild Steel	1.2 mm Mild Steel
Dimension (W x H x D)	270 mm x 730 mm x 240 mm	
Finishing	RAL 3000 Flame Red Epoxy Polyester Powder Coating	

Our Global Network

EVERSAFE® products are available in more than 45 countries worldwide



EVERSAFE EXTINGUISHER SDN. BHD. (053162-V)

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