

New Generation

Fire Extinguisher



**ECO ELEPHANT**

- Everyone knows that the fire extinguisher in the world all presents like this :
- However, you have to know that the New Generated Fire Extinguisher not only made by metal, it could be a Transparent Fire Extinguisher.
- And you should know that we can check the quality of dry chemical with a Transparent Fire Extinguisher in any time.
- Therefore, you must know that our Fire Extinguisher do not need designated person to house for maintenance!





Welcome to **Aplus Molds & Plastics Co., Ltd.**

- Establishment- Established in July, 1995. We specialize in mold design / manufacturing & plastic injection: **OEM & ODM**
- We devote in **our own brand manufacturing** which owns multi-national patents.
- Combine technical to develop futurity products in a professional vision.
- Quality Standard Certificates:
  - ✓ **ISO-9001:2000**
  - ✓ **ISO/TS-16949**
  - ✓ **ISO-22000, HACCP**

# Eco Elephant is :

- A **New Generated fire extinguisher** which is transparent and see-through.
- An **Eco-Friendly fire extinguisher** which can protect our earth.
- An **Effortless fire extinguisher** with an ergonomic handle design.
- A **Safety fire extinguisher** since there is no constant pressure inside the cylinder.
- An **Economical fire extinguisher** which has non-caking dry chemical inside.
- A **Smart fire extinguisher** with refillable cartridges (CO<sub>2</sub>) and dry chemical which can be DIY replaced.

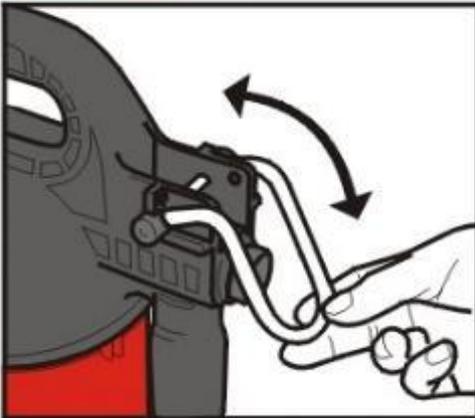
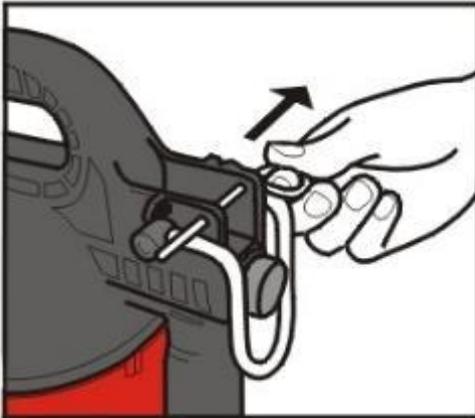
| Comparison Item           | First Generated ECO ELEPHANT Extinguisher   | Steel Cylinder Extinguisher (U.S.A)  |
|---------------------------|---|--|
| Description               | Dry Chemical<br>Capacity : 5lbs (2.27 kgs)<br>Total Weight : 4.6 kgs  | Dry Chemical<br>Capacity : 5lbs (2.27 kgs)<br>Total Weight : 4.7 kgs   |
| Working Pressure          | 120 psi (827 Kpa)   | 195 psi (1344 Kpa)   |
| Working Temperature Range | -30°C to 60°C<br>(-22°F to 140°F)   | -40 °C to 49°C<br>(-40 °F to 120°F)  |
| Duration                  | 17~20 sec.  | 14 sec.  |
| Discharge Range           | 10-18 feet (3~5.5 m)  | 10-18 feet (3~5.5 m)   |
| Cylinder                  | See-through cylinder, easy to visually inspect the dry chemical condition                                     | Can not inspect the dry chemical condition from outside, need annual maintenance.  |
| Characteristic            | Good weather resistance, not easy to be rusted.   | Metal is easy to be rusted.  |
| Safety                    | Separate Expellant CO <sub>2</sub> Gas Cartridge design, not easy to be exploded, neither to be decompressed. | Single Chamber Type : decompression concern exists. Inside Expellant CO <sub>2</sub> Gas Cartridge : explosion concern exists. |

| Comparison Item | First Generated ECO ELEPHANT Extinguisher   | Steel Cylinder Extinguisher (U.S.A)   |
|-----------------|---|---|
| New Design      | New ergonomic-design handle. easy carry, easy operate.  | No ergonomics, require more effort on operating.  |
| Maintenance     | Separate Expellant CO <sub>2</sub> Gas Cartridge design, dry chemical not easy to be compressed. Can recharge dry chemical and change CO <sub>2</sub> gas cartridge by ourselves. | Single Chamber design, High Intensity CO <sub>2</sub> compressed dry chemical continually results caking. Need annual professional maintenance.(Decompression, Stirring and Solarization, etc.) <ul style="list-style-type: none"> <li>• Change label : NTD150</li> <li>• Solarization : NTD350</li> <li>• Replace chemical : NTD700</li> </ul> |
| ECO             | 1 ton plastic material production increases 0.4-0.5 ton of CO <sub>2</sub> , is ¼ of the steel one.   | 1 ton steel material production increases 1.7 ton of CO <sub>2</sub> .  |
| Recycle         | Plastic material can be totally recycled and reused.  | The process of steel recycling is complicated and costly. Results toxic waste, cause pollution.   |

# Instructions

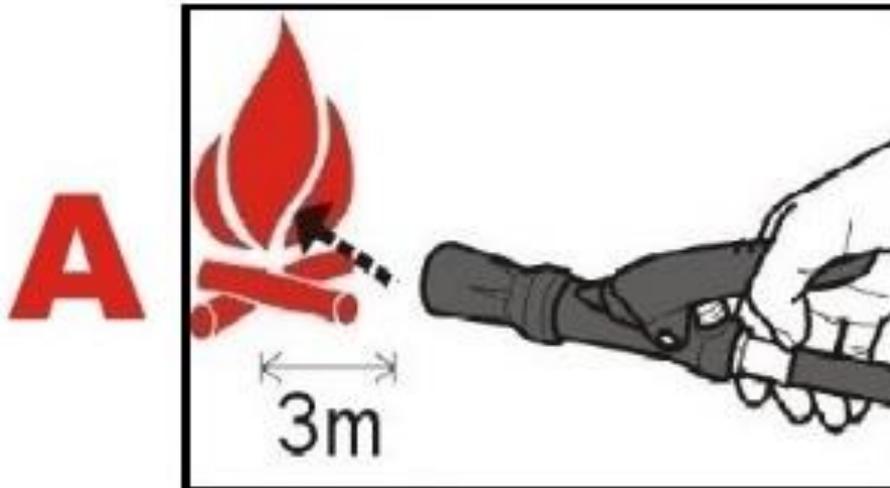
# P.A.S.S.

**P**<sup>2</sup>



- **Pull** the safety pin to unlock the lever
- Then, **pull** the lever upwards to pressurize.

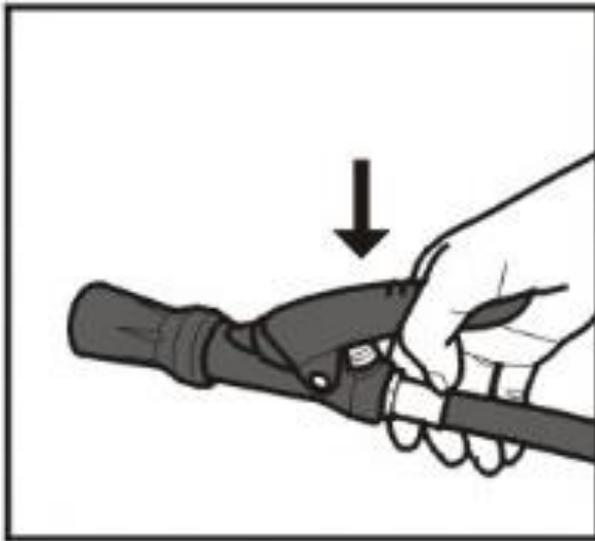
# P.A.S.S.



- **Aim** to the base of the fire.

# P.A.S.S.

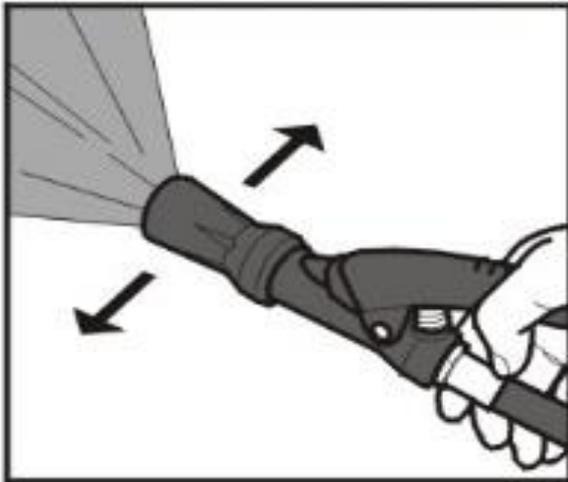
**S**



- **Squeeze** the nozzle to discharge the extinguishing agent.

# P.A.S.S.

**S**



- **Sweep** the nozzle from side to side aiming to the base of the fire.

## AMP in-house Test content

(In accordance with UL specification)

| Test Item                            | Test Content   | Result         |    |
|--------------------------------------|--|----------------|----|
| Leakage                              | Inject air into cylinder until 150 psi and stand for 15 minutes, the pressure can not be below 50 psi.   | > 50 psi       | OK |
| Range                                | Height from the ground: 1 m<br>Seconds : over 13 sec<br>Distance : over 3 m<br>Total dry powder spray > 90%(2.04 kg)   | 1 m            | OK |
|                                      |  | 20 sec         | OK |
|                                      |  | 4~5 m          | OK |
|                                      |  | > 90%(2.21 kg) | OK |
| - 30°C Freezing<br>(low temperature) | Put the fire extinguisher into a -30°C freezer to keep freezing for 48hrs and spray immediately after freezing.<br>Seconds : over 13 sec<br>Distance : over 3 m<br>Total dry powder spray > 90%(2.04 kg) | - 30°C         | OK |
|                                      |  | 24 sec         | OK |
|                                      |  | 3~4 m          | OK |
|                                      |  | > 90%(2.13 kg) | OK |
| 100°C Heating<br>(Aging)             | Put the fire extinguisher into a 100°C oven and constantly heat for 24hrs and spray immediately after heating.<br>Seconds : over 13 sec<br>Distance : over 3 m<br>Total dry powder spray > 90%(2.04 kg)  | 100°C          | OK |
|                                      |  | 20 sec         | OK |
|                                      |  | 4~5 m          | OK |
|                                      |  | > 90%(2.2 kg)  | OK |

## AMP in-house Test content

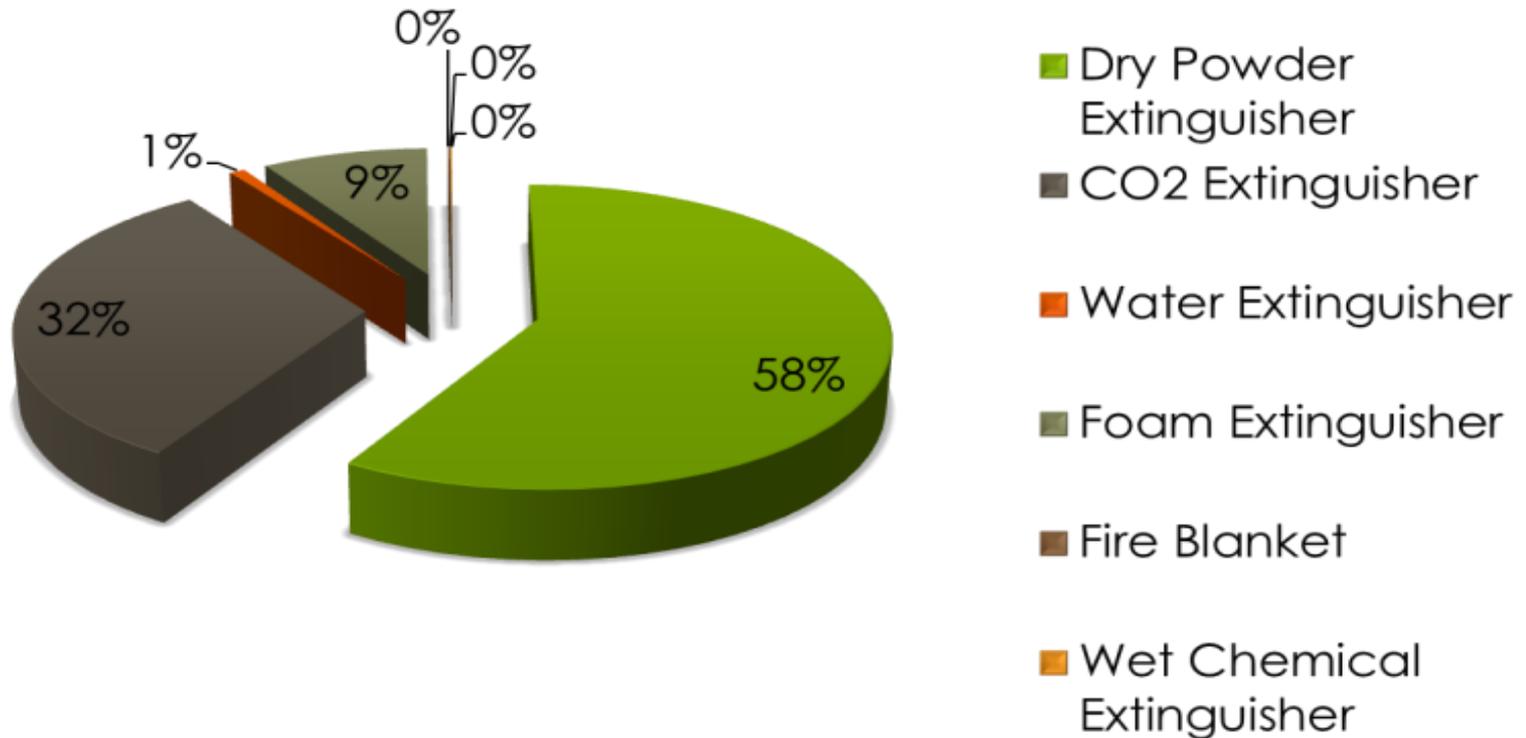
(In accordance with UL specification)

| Test Item                | Test Content  | Result         |              |
|--------------------------|---|----------------|--------------|
| Blasting-cylinder        | Pressurized the water to 384 psi and maintain 1 min, 768 psi and maintain 1 min, then keep pressurizing the water until blast. (Do not allow debris).   | 384 psi-1min   | OK           |
|                          |   | 768 psi-1min   | OK           |
|                          |   | 770 psi        | Expansion    |
| Blasting-delivery system | As above.   | 384 psi-1min   | OK           |
|                          |   | 768 psi-1min   | OK           |
|                          |   | 1000 psi       | Slight rifts |
| Drop test                | Height from the ground: 1m<br>After injecting CO <sub>2</sub> into cylinder, the extinguisher will be placed as (a) upright, (b) horizontally, (c) inverted. When extinguisher falls down on the concrete floor, spray it immediately.<br>Seconds : over 13 sec<br>Distance : over 3 m<br>Total dry powder spray > 90%(2.04 kg) | 1 m            | OK           |
|                          |   | 20 sec         | OK           |
|                          |   | 3~4 m          | OK           |
|                          |   | > 90%(2.17 kg) | OK           |

## AMP in-house Test content (Follow UL Specification)

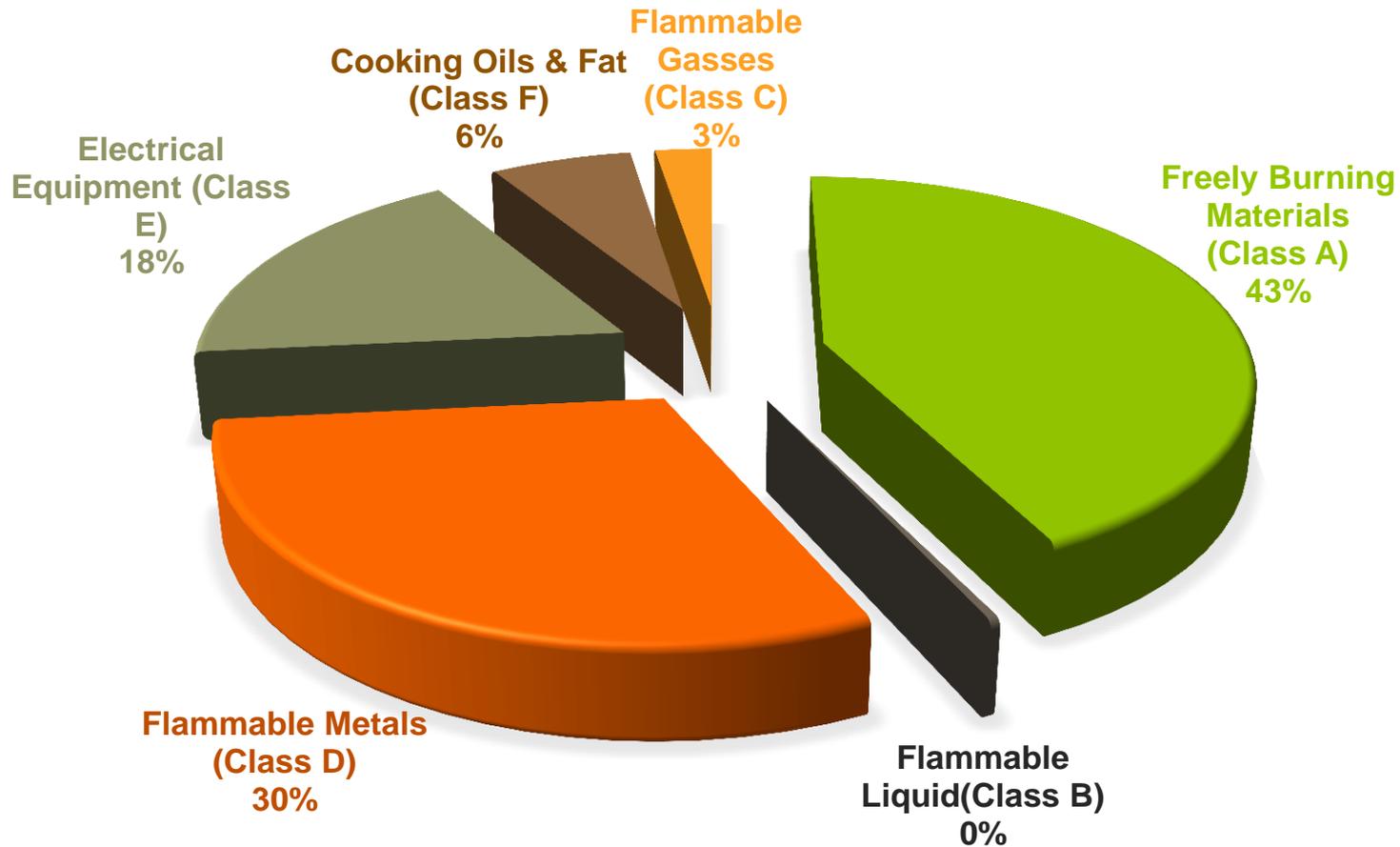
| Classification and Rating   | Test Content   | Result |
|-----------------------------|--|--------|
| A type-<br>Wood             | Gas<br>Number of wood members: 144 pcs<br>Flammable liquid pan size: 800*800*90 mm | OK     |
| B type-<br>Flammable liquid | Gas<br>Flammable liquid pan size: 1200*1200*90 mm                                  | OK     |

## Most Commonly Used Extinguishing Agent



**The highest usage percentage in the world : Dry Powder Extinguisher  
ECO ELEPHANT is exactly ABC Dry Powder Extinguisher**

## Most Frequently Type of Fire



**70% of the fire could be wiped out by using ECO ELEPHANT**

# **ECO ELEPHANT**

Is the New Generation of fire extinguishers



Thank you!!