



# **PRODUCT MANUAL**

## **FIRE EXTINGUISHER**

**Powder Stored Pressure type- Capacity  
1, 2, 4, 6 & 9 kg.**

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## **[KANEX FIRE EXTINGUISHER]**

**Powder Stored Pressure type- Capacity 1, 2, 4, 6 & 9 kg.**

### **INTRODUCTION**

This manual contains product description, installation, operating, maintenance, inspection and refilling for the KANEX brand Portable Store pressure ABC Dry Chemical Powder type Fire Extinguisher of capacity 1, 2, 4,6 or 9 Kg by weight of powder. This model is designed to extinguish 'A', 'B' and 'C' type fires involving material like Wood, Paper, Cotton, Petro Chemical products, Paints, Resins, Pigment, Varnish, Gases in the compressed form like Oxygen, Acetylene, LPG, CNG and Electrical as well as electronic equipments.

### **PRODUCT DESCRIPTION**

- The principal advantage of KANEX Portable type Stored Pressure ABC type Fire Extinguisher is that the fire extinguisher is handy type and it is easily handled by a single person.
- Body Shell made of Mild steel sheet as per standard given in IS 513, is constructed by welding and the shape of the body is cylindrical. The domes ends of the body are dished outwards.
- The charge, Dry chemical powder of IS 14609 is an extinguishing media that gives blanketing effect on the fire to be put out. The powder is actuated by N<sub>2</sub> gas stored in the container.
- The discharge of the powder is by squeezing the lever of control valve. The Valve is made of forged Brass material.
- A Pressure gauge is attached to the valve body for inspection of in built pressure. The needle in the green zone in the dial of pressure gauge is the readiness of the extinguisher to be operated. The needle shifted in the red zone is an indication of under or excess pressure in the container and to refill the extinguisher.
- The discharge nozzle for capacity of 1 & 2 Kg is designed to meet the performance requirements. In case of 4,6 & 9 Kg capacity discharge hose is provided of adequate length.

### **INSTALLATION**

Installation of the KANEX Fire Extinguisher requires that the equipment be uncrated, placed in its proper position and secured in place with caster locks.

One set of accessories is packed with fire extinguisher for use in installation either attached with the body or loose in a packet. Please compare your supplied accessories with the following list.



Discharge Nozzle (For capacity 1 & 2 kg only)

Discharge Hose Pipe (length 465 mm for 4 & 6 Kg capacity & 560 mm for 9 Kg capacity)

Belt (For capacity 4,6 & 9 Kg)

Wall Bracket

To assemble the Fire Extinguisher,

- Connect the nozzle or Hose Pipe to the valve. Rotation required connecting the nozzle or hose is in clockwise direction
- Provide the belt to the body at Bottom circumferential welding joint
- Keeping Plastic discharge nozzle (open end of the hose) into the belt arms, tighten the nut bolts of Belt
- Ensure that the all above parts are firmly tightened with each other
- Affix the wall bracket ensuring adequate strength to the wall

## OPERATION

- ✓ To be operated the Kanex fire extinguisher is held in an upright position
- ✓ The Discharge Hose is hold firmly in the hand.
- ✓ The safety sealing device is removed
- ✓ The locking pin is pulled
- ✓ The Lever of Valve is squeezed
- ✓ The discharge should be directed at the base of the flames
- ✓ On fires involving electrical or electronics equipments, discharge should be directed at the source of the flames.

There are two methods of directing the discharge to adopt the better extinguishment

- a) The most commonly used method of agent application on contained flammable liquid fires is to start at the near edge and direct the discharge in a slow, side-to-side sweeping motion, gradually progressing toward the back of the fire.
- b) The other method is called ‘Over head application ‘. The discharge nozzle is directed in a dagger or downward position (at an angle of 45 degrees) toward the center of the burning area.

Generally, for spills fire, the side-to-side sweeping motion could give better results.

The discharge should be applied to the burning surface even after the flames are extinguished to allow added time for cooling and to prevent possible reflash.

## PRINCIPALS OF OPERATION

The Dry chemical powder agent extinguishes by blanketing on the Fire surface so that the oxygen levels are kept below the percentage required for combustion. The method of expulsion of dry powder is by dry Nitrogen pressure stored in the fire extinguisher itself. The control discharge of the powder is obtained by use of the spring loaded squeeze grip.

The discharge time for “KANEX” brand Portable type Dry Chemical Powder type Fire Extinguisher for Capacity of 1 and 2 Kg varies from 9 to 11 second. The discharge time for the



capacity 4, 6 & 9 Kg varies from 17 to 30 seconds the discharge jet range of the discharge stream is more than 2 meter for 1, 2, 4, 6& 9 kg. The percentage discharge of the extinguishing media is more than 85 %.

## **INSPECTION, MAINTENANCE AND RECHARGING**

The owner or the designated agent or occupant of a property in which fire extinguishers are located shall be responsible for inspection, maintenance and recharging.

### **INSPECTION:**

Fire Extinguisher shall be inspected when initially placed in service and then after at approximately 30 day intervals for routine maintenance. The inspection should be in following points of view.

- Safety Seals not broken or missing
- Visually damage, corrosion, leakage or clogged discharge connection
- Condition of nozzle, Hose Pipe, valve, wall bracket and fire extinguisher itself
- Inspection of the needle of pressure gauge (If the needle shifts to the red zone, send the extinguisher for refilling)

### **RECHARGING:**

It is important to reenergize the Fire Extinguisher as soon as possible to eliminate the potential of recombustion or fire. Each fire extinguisher shall have a tag or label securely attached that indicates the month and year recharging was performed and that identifies the person performing the service.

It is essential to recharge the fire extinguisher as soon as the extinguisher is used for either extinguishing the fire or used for demonstration. The extinguisher must be recharged at a stipulated time duration that is a due of refilling.

## Fire Extinguisher Part List

### [Dry Chemical Powder- Portable (Capacity 1 Kg)]

SR. NO.	DESCRIPTION	MOC	QTY.	UNIT
01	Body	M.S.	01	No.
02	Valve	Brass	01	No.
03	Neck Ring	M.S.	01	No.
04	Siphon Tube	Plastic	01	No.
05	Discharge Nozzle	Plastic	01	No.
06	Wall Bracket	M.S.	01	No.
07	Pressure Gauge/indicator	Brass	01	No.
08	Powder	MAP (90 %)	01	Kg

### [Dry Chemical Powder- Portable (Capacity 2 Kg)]

SR. NO.	DESCRIPTION	MOC	QTY.	UNIT
01	Body	M.S.	01	No.
02	Valve	Brass	01	No.
03	Neck Ring	M.S.	01	No.
04	Siphon Tube	Plastic	01	No.
05	Discharge Nozzle	Plastic	01	No.
06	Wall Bracket	M.S.	01	No.
07	Pressure Gauge/indicator	Brass	01	No.
08	Powder	MAP (90 %)	02	Kg

## Fire Extinguisher Part List

### [Dry Chemical Powder- Portable (Capacity 4 Kg)]

SR. NO.	DESCRIPTION	MOC	QTY.	UNIT
01	Body Shell	M.S.	01	No.
02	Valve body	Brass	01	No.
03	Neck Ring	M.S.	01	No.
04	Siphon Tube	Plastic	01	No.
05	Discharge Hose with Nozzle	EPDM	01	No.
06	Mounting Bracket	M.S	01	No.
07	Pressure Gauge/indicator	Brass	01	No.
08	Powder	MAP Powder	04	kg

### [Dry Chemical Powder- Portable (Capacity 6 Kg)]



SR. NO.	DESCRIPTION	MOC	QTY.	UNIT
01	Body Shell	M.S.	01	No.
02	Valve body	Brass	01	No.
03	Neck Ring	M.S.	01	No.
04	Siphon Tube	Plastic	01	No.
05	Discharge Hose with Nozzle	EPDM	01	No.
06	Mounting Bracket	M.S	01	No.
07	Pressure Gauge/indicator	Brass	01	No.
08	Powder	MAP Powder	04	kg

**[Dry Chemical Powder- Portable (Capacity 9 Kg)]**

SR. NO.	DESCRIPTION	MOC	QTY.	UNIT
01	Body Shell	M.S.	01	No.
02	Valve body	Brass	01	No.
03	Neck Ring	M.S.	01	No.
04	Siphon Tube	Plastic	01	No.
05	Discharge Hose with Nozzle	EPDM	01	No.
06	Mounting Bracket	M.S	01	No.
07	Pressure Gauge/indicator	Brass	01	No.
08	Powder	MAP Powder	04	kg