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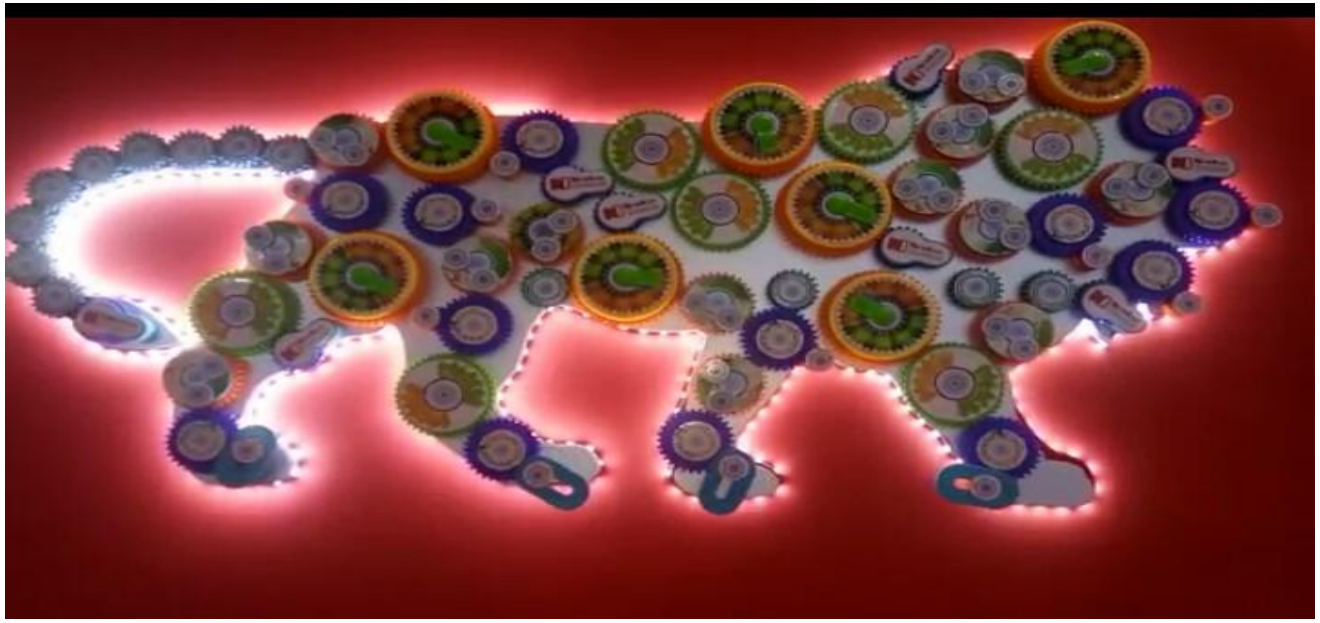

NEWAGE FIRE PROTECTION ENGINEERS PVT LTD

AEROSOL FIRE SYSTEM

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➢ WHAT IS NEXTGEN AEROSOL TECHNOLOGY ?

- Compact – strong solid
- Potassium salts (Key compound - K2CO3)
- Transformation of Solid to Gaseous Aerosol phase by exothermic process
- Certified Life Time 15 Years
- Superior and stable performance
- FIRE Class :- A,B,C,F
- Self-activation temperature 300 •C
- No chemical reaction with cooling material
- Substitute for HALON
- Listed By EPA-SNPA
- Design to meet NFPA 2010 & PrEN 15276 Guidelines

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FIRE
Formation of radicals (O*, H*, OH*) during the chemical chain reactions of fire

Aerosol Phase I:
(before extinguishing process)
Inert gases (N_2, H_2O, CO_2) carrying solid, micro-sized particles (K_2CO_3)

Aerosol Phase II:
(during extinguishing process)
Formation of K* radicals by the disassociation of K_2CO_3

FIRE IS EXTINGUISHED
Reactions between radicals lead to the formation of stable compounds (KOH, K_2CO_3)

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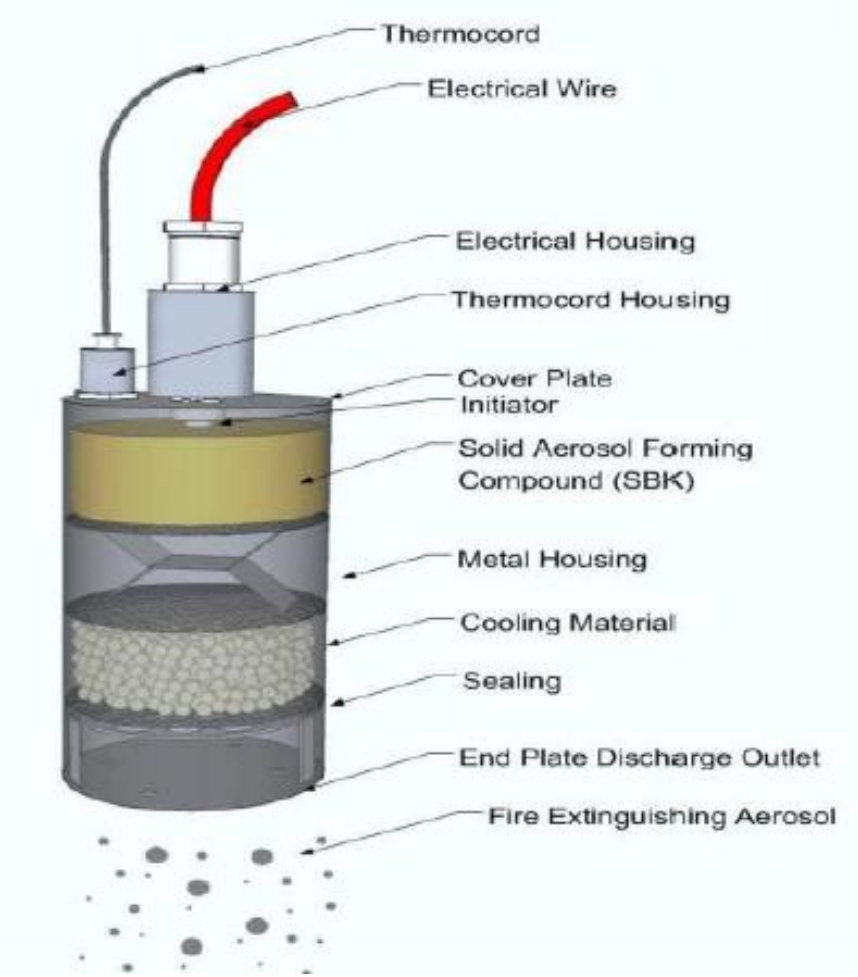
Nextgen Aerosol System :-

➢ Aerosol Generator System & Parts :-



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ACTIVATION TYPE:

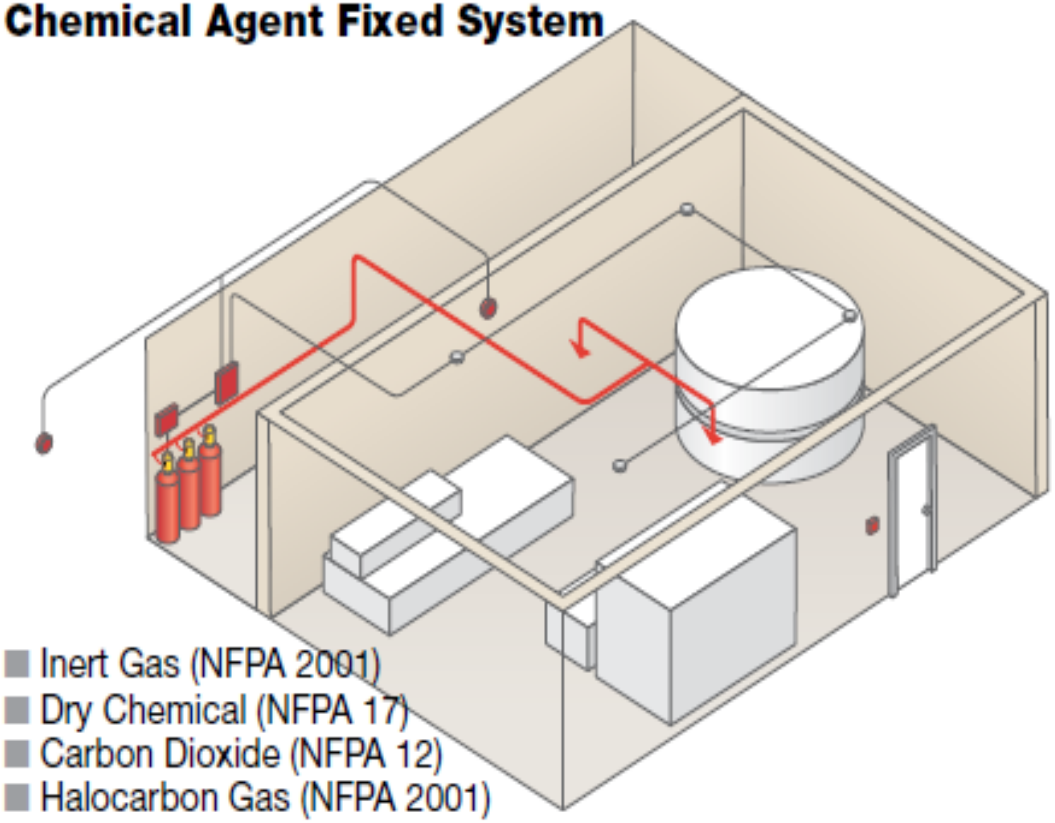
1. Electrical Series

2. Thermal Series

3. Manual Series

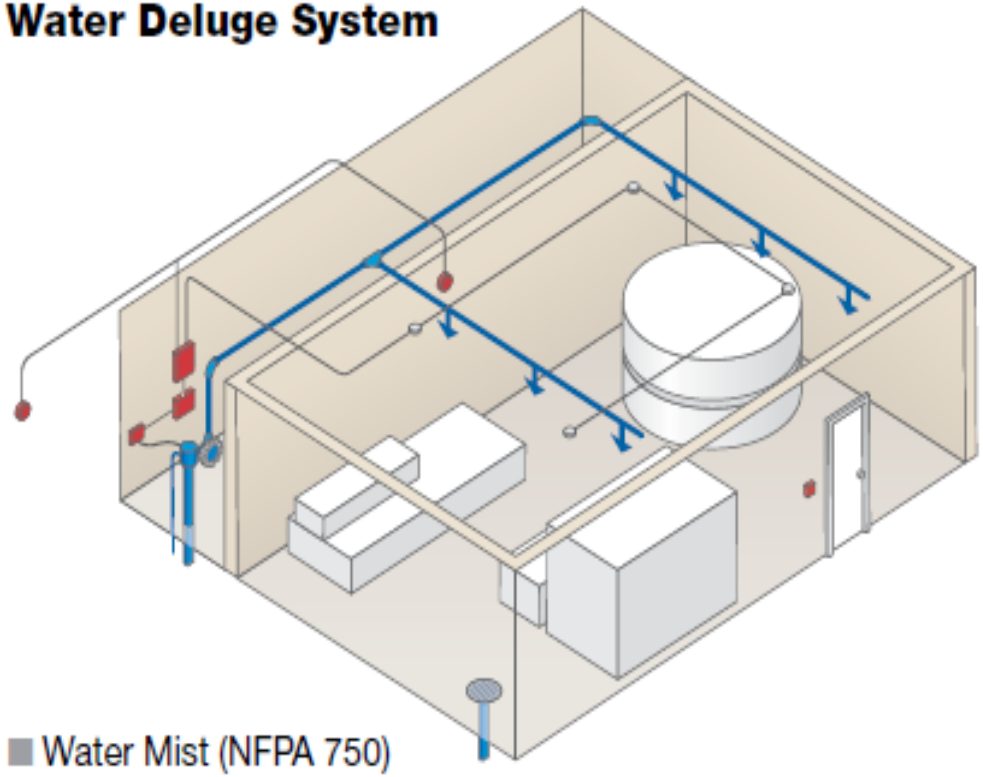
4. First Responders

Chemical Agent Fixed System

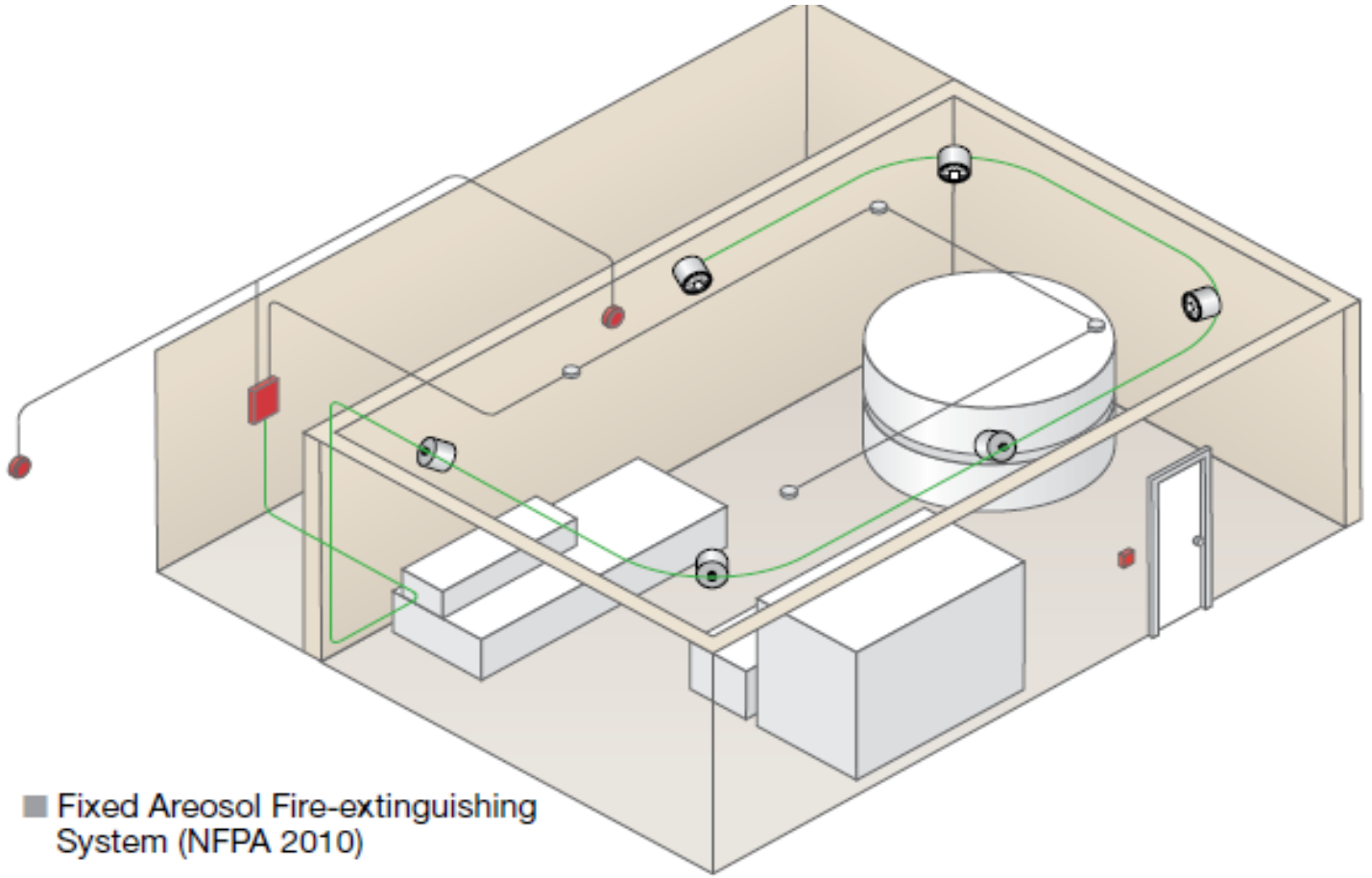


- Inert Gas (NFPA 2001)
- Dry Chemical (NFPA 17)
- Carbon Dioxide (NFPA 12)
- Halocarbon Gas (NFPA 2001)

Water Deluge System



- Water Mist (NFPA 750)
- Foam-water spray (NFPA 16)



Fixed Areosol Fire-extinguishing System (NFPA 2010)

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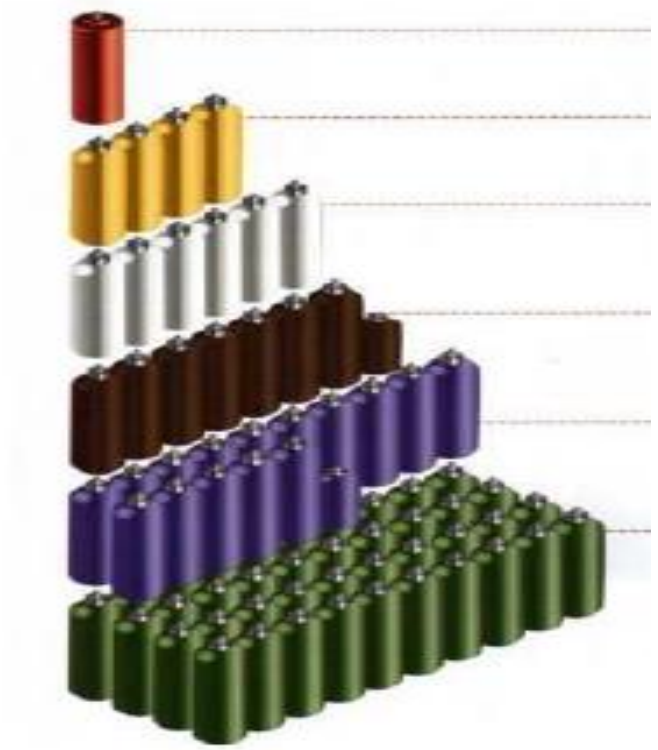
Features :-

- ✓NO Distribution piping, manifold or nozzles
- ✓NO floor space requirement or shoring up for weight
- ✓NO Special handling for compressed gas cylinders
- ✓NO venting or ceiling tile clips for discharges forces
- ✓NO solenoid actuators, control heads or hoses
- ✓NO water drains or pipe freeze protection
- ✓Non toxic, Non corrosive
- ✓Reduces 30% materials compared to other system
- ✓ODP = 0, GWP=0, Atmospheric Lifetime= Negligible

➢ Comparison of Required QTY of AEROSOL Vs. Gaseous Extinguishing System :-



Aerosol (1Time)

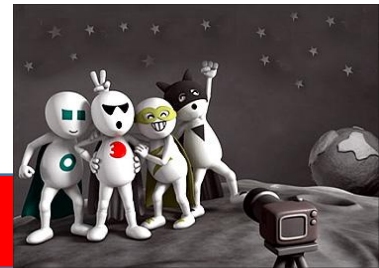
HALON 1301 (4 Times)

FM200 (6 Times)

FE-13 (7.5 Times)

C02(15.5 Times)

Inergen(40 Times)



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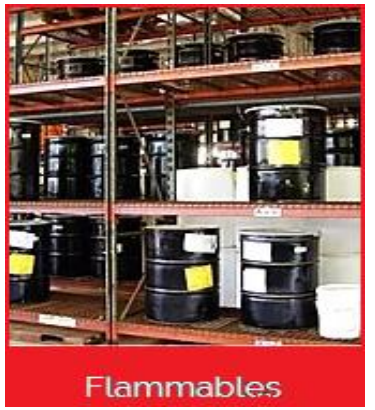
Applications :-



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Certification & Product Approval :-

UL

NFPA INTERNATIONAL

Ex ATEX

ISO International Organization for Standardization

TLV

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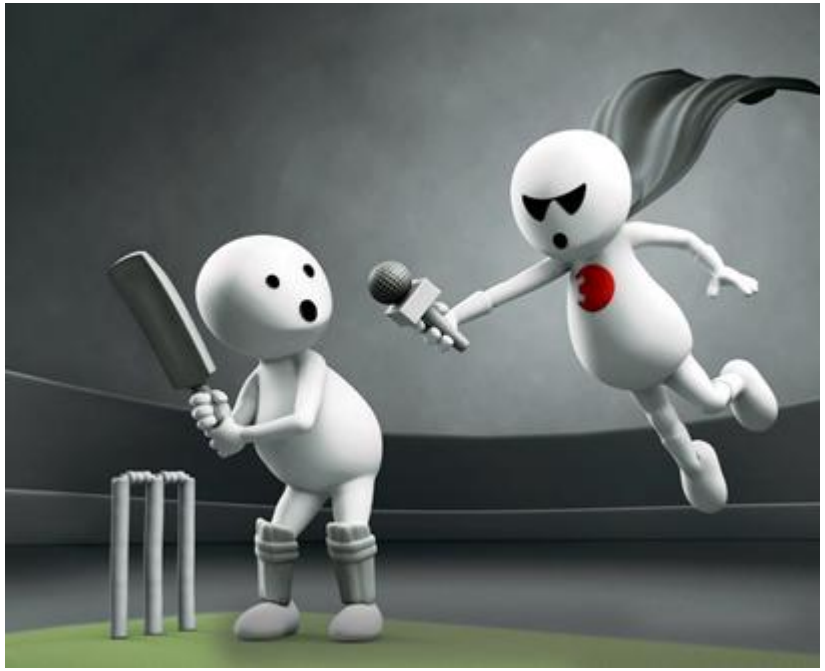
Thank You



Any Questions