

## Product Specification for Automatic Fire Ball for Fire-Extinguishing of Large size - the weight of the agent is not less than 1.8 kg.

Indent No. No. &amp; Date

NR-A8028-26-00102, Dated 21.05.2026

Specification	Sub-Spec	Value
GENERIC	Automatic Fire Ball for Fire-Extinguishing	Fire extinguishing balls are portable extinguishers for a preliminary fire and typically designed in the round shapes with the soft shell to contain the extinguishing agent (Dry Chemical Powder for Fighting A,B,C, Class Fires duly UL Listed), and the fire ignition material (fuse).
	Automatic activation Mechanism	The activation of the unit is achieved thermally by the use of the Pyrotechnic activator.
CONSTRUCTIONAL	Size of fire extinguishing balls	Large size - the weight of the agent is not less than 1.8 kg.
	General Appearance of Fire extinguishing balls	must not have any cracks, tears or leakage of the extinguishing agent on their shell
	Outer Shell Construction	Spherical in shape made of EPS (Thermocole Material) of minimum 10 mm thickness completely combustible and CFC free.
	Automatic Activation Mechanism	Net of activation ignition chords with 4 – 10 sensor points, connected with Paper Fuses, which shall be atleast 02 in numbers to afford redundancy
	Fire extinguishing agent ( Dry Chemical Powder) weight	4.85 kilogram
	Gross Weight of Fire Ball without stand	5 kilogram
	Outer Diameter of Fire Ball	230 millimeter
	Mounting for Automatic Fire Ball	Stand made from 6 mm GI Wire Rod of suitable diameter which looks like basketball ring
	Self life Test for Extinguishing agent contained inside fire extinguishing balls	The ball with the age of one year or more must be tested By taking out the soft shell of the fire extinguishing ball, the chemical powder can be examined. It must not agglomerate
PERFORMANCE	Moisture aging Test of the chemical powder	To test moisture aging of the chemical powder, a Desiccator or similar functional device is used. This can be conducted by filling water at the bottom of the device, hanging the ball above the water, and then sealing and keeping the device at the room temperature for 14 days. By taking out the soft shell of the fire extinguishing ball, the chemical powder can be examined. It must not agglomerate.
	Thermal resistance test after condetioning at 85 °C for 24 h ± 15 min	Fire extinguishing balls must not have any cracks, tears or leakage of the extinguishing agent on their shell, which is tested by the inspection.
	Test for Burst effect	The ball container with dimension of 56x56x56 cm constructed from the strong frame and 5 mm thick normal glasses for 4 sides by opening the top and the bottom .On igniting the ball by poring flammable liquid on the ball.The glasses used in the test must not be cracked or broken.
	Sound level test	When fire extinguishing balls are tested for the sound pressure level emitted from the burst , it must not be more than 140 dBA.
	Resistance to compression	Fire extinguishing ball must not have any cracks, tears or leakage of the extinguishing agent on their shell.
	Drop test	When fire extinguishing balls are tested by dropping them to the ground height of 2.5 m from a cement floor, must not have any cracks, tears or leakage of the extinguishing agent on their shell.
	Marking and Labeling	(1) Name labeled 'Fire Extinguishing Ball' in both Hindi and English languages. (2) Size of fire extinguishing balls and the weight of dry chemical powder. Symbol for the class or classes for which fire extinguishing balls are effective.
	Design application Density of compound (Extinguishing application density, including 30% safety factor, required for system design purposes)(gm/ml)	90
	Activation Temperature Range (Thermally activated Fire Extinguisher)	90 degree Celsius
	Operational discharge time at a define activation temperature	4 second
	Effective coverage Volume for one Fire Ball (in m³)	15 cubic meter
	Product lifespan period	60 month
CERTIFICATION	Pyrotechnic Activator Certification Approval	PESO Certified
	Source of Type Approval of complete Product to prove the conformity of the product for declared parameters	NABL Accredited Laboratory
	Test Reports to be furnished for the buyer on demand	Yes
	Availability of any other certification	UL

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