

TECHNICAL DATA SHEET



BC DRY CHEMICAL POWDER (CARTRIDGE OPERATED) FIRE EXTINGUISHER 6KG

BC (Cartridge Operated) Fire Extinguisher Applicable Class of fire - B, C and electrically started fires.

Brief description: Lightweight, durable, and compliant with safety standards. BC type Fire Extinguishers with nominal charge of 6kg ($\pm 2\%$) with CO₂ Gas Cartridge of 120gm as per IS 4947. Constructed of MS Sheet by MIG Welding process and discharge Valve.

1. GENERAL DATA :-

Manufacturer	Palladium Safety Solutions Pvt. Ltd.
Trade Mark/Brand	"PALEX"
BIS Standard Code	IS 15683:2018
Type	Portable Fire Extinguisher Gas Cartridge Type



2. PERFORMANCE DATA :-

Capacity	6KG
Fire Rating	89 B (Class "B" – Liquid Fuel)
Performance requirements	Min. Effective discharge time : 13 Sec. (Actual : 15 Sec. Approx.) Min. Bulk range of discharge : 2 Mtr. (Actual : 3.5 Mtr. Approx.) Min. Percentage of discharge : 85% (Actual : 95% Approx.)
Working Temperature	(-) 30°C To (+) 60°C
Service Pressure	15 BAR
Hydraulic Test Pressure	35 BAR

3. MATERIAL OF CONSTRUCTION :-

Body	MS Sheet (Low Carbon Welded Sheet Having max. of 0.25% C, 0.05% P and 0.05% S (IS 513))
Extinguishing Media	Sodium/Potassium Bicarbonate ($\geq 75\%$) confirming to IS 4308:2019
Neck Ring	MS pipe, (Filling Dia – 64mm)
Valve	Steel Make, Squeeze Grip Type
Syphon Tube	ABS / Aluminium
Hose Pipe	PVC Braided (500mm ± 10 mm)
Gas Cartridge	120gm CO ₂ Gas Cartridge as per IS 4947
Discharge Nozzle	PVC
Bottom Dome	PVC / Plastic

4. QUALITY TEST :-

Hydro Pressure Test (Pt)	35 bar (3.5 MPa) Hold for 1 min.
Min. Burst pressure (Pb) for body	55 bar (5.5 MPa) Hold for 1 min.
Leakage test	Inverted glass jar / Soap solution
Partial discharge	The second pressure or weight shall not be less than 75% of the first after interruption of the Discharge

5. DIMENSIONS :-

Diameter	146mm $\pm$ 2mm
Height	455mm $\pm$ 2 mm
With Bottom dome	470mm $\pm$ 2mm
Thickness	Made up from 1.2mm Thick Sheet
Full/Gross Weight of Extinguisher	8.5KG $\pm$ 2% (Approx.)

6. Anti – Corrosion Treatment :-

The Extinguisher Undergo a 7-tank Anti-Corrosion Process, Followed by an Epoxy Powder Coating, Which is no Less than 50 Microns in Thickness.

7. MISCELLENEOUS :-

Inspection & testing	As per approved QAP
Finish	PO Red as per IS : 5 (Shade 538)
Marking	As per IS 15683:2018
Approvals	BIS (BUREAU OF INDIAN STANDARD)
Maintenance, care and refilling	As per IS 2190

8. PACKING :-

Box Type	Corrugated Boxes
Dimension	175mm X 175mm X 520mm

9. IN BOX ACCESSORIES:-

Wall Mounting Bracket	1 Nos
Fire Extinguisher	1 No (Fully Assembled)

PALLADIUM SAFETY SOLUTIONS PVT. LTD.

An ISO 9001 : 2015 Certified Company

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