



# TECHNICAL DATA SHEET

Model. :MI-22.5/CO2

## CO2 WHEELED TYPE 22.5 KG FIRE EXTINGUISHER

'MAHAVIR' Brand 22.5 kg Carbon dioxide based Fire Extinguishers applicable on Class B, C electrically started fires, flammable fire and flammable gases.

**Brief description:** Fire Extinguishers with nominal charge of 22.5 kg (-5%).Constructed of Seamless Manganese Steel and brass Caste discharge Valve. Approved with an effective throw of about 4 meters (Min. 2 m.) and Min discharge about 85%.



Buyer's Name :

TC No.

### A. GENERAL DATA

Manufacturer	MAHAVIR INDUSTRIES
Brand	"MAHAVIR"
Standard Code	IS 16018:2012
Type	CO2 Trolley Mounted High Pressure.
Quantity	

### B. MATERIALS OF CONSTRUCTION

Extinguishing Medium	Carbon Dioxide Gas Conforming to IS 15222:2002
Body	Seamless Manganese Steel ISI Marked confirms to IS : 7285 With Explosion Certificate (Nagpur)
Valve	Brass Wheeled type as per 3224 ISI Mark
Siphon Tube	Aluminium
Discharge horn	PVC
Trolley	Mild Steel
Trolley wheel	Mild Steel and Rubber.
Discharge Hose	Wire Braided Hose (Length 5000 mm)

### C. GUARANTEED PERFORMANCE

Performance Requirement	<b>Min. effective Discharge Time:</b> 15Sec & Above. <b>Bulk Range of Discharge:</b> Min. 2 meter & Above <b>Min Percentage of Discharge:</b> 85%.
Temperature Range	-30 °C to + 55 °C
Service pressure	70 – 80 bar
Maximum Service Pressure	120 bar
Tested Pressure	250 bar
Fire Rating	<b>89B</b>

### D. ROUTINE TESTS

Hydro pressure test	250bar as per ISI (25MPa)
Leakage test	Emerging the cylinder into a inverted glass jar for a lapse of 12hr
Burst Pressure Test For Discharge Hose	Not Less than 275bar (27.5 Mpa)
Heating Conditioning Chamber test	Conditioning the Extinguishers in an Oven at 60 ± 5°C for 24hrs
Cooling Conditioning Chamber test	Conditioning the Extinguishers in Testing Fridge at -30 ± 5°C For lapse of 18hrs
Anti – corrosive treatment	Applying Normal Oil Paint to the body and Salt Spray Testing Of body.

Type of tests Resistance to Impact, External corrosion test, Tapping test, Vibration test As per IS 16018

### E. DIMENSIONS

Thickness of sheet	<b>Max. Diameter:</b> 200±10 mm.
Full weight of cylinder	<b>Height:</b> 1110 mm
	Made Up of thickness 4 mm to 4.2 mm
	62.5 kg

### F. ACCESSORIES

Washer, Discharge hose, discharge Horn Provided.

### G. MISCELLANEOUS

Inspection & Testing	As per IS 16018:2012
Finish	Applying Red Paint To The cylinder body
Marking	As per IS 16018:2012
Approvals	BIS Certification Approved

### H. Packing

Corrugated paper rounded to cylinder with suitable jute bags.