

TC No.: F45/RQ/033/25	Model No.: KFMQRQ-45	Date: 27-07-2025
Type and Capacity of Extinguisher	: KFMQRQ-45-Kanex M Foam Trolley Mounted Fire Extinguisher Cap. 45 Ltr.	
Batch Number	: KFMQRQ45 033/25	
Batch Quantity	: 50.00 Nos.	
Serial Numbers	: 01601 To 1650	
Month of Manufacturing	: Jul/25	
Date of Inspection	: 27-07-2025	

Sr. Nos.	Cl. No.	Tests and Inspection	Requirements	Sampling	Observation
1	5.1	Extinguishing media	AFFF Foam Confirming to IS 4989 (6% Concentration)	One	Pass
2	5.4	Capacity	45 ltr (Tolerance $\pm 5\%$).	Each	Pass
3	6.4.1(a) & (b)	Retention of charge	As per IS 16018:2012	Each	Pass
4	6.5	Intermittent discharge test	Conditioned cylinder at $27 \pm 5^\circ\text{C}$ and $55 \pm 5^\circ\text{C}$ for 18hrs and then operate it intermittently by opening and closing the valve at 5 Sec interval, not more than 10% content should remain in cylinder Test done on Sr. No. :01401	One from Every 7th batch	1% content remain for 29th batch
5	7	Fire performance test	Minimum rating for A class is 4A and for B class is 144B	Once in year	20A:233B
6	8.1.3 to 8.1.7	General requirements	As per IS 16018:2012	Each	Pass
7	8.3.1 and 8.9.1.1	Burst Test	Mech. Failure shall not occur upto 70kgf/cm ² and no any break from weld at 80kgf/cm ² . Test done on Sr. No. :1505A	One (from every 500 nos)	94kgf/cm ² for 31st batch
8	8.3.2 & 8.9.1.1	Deformation test	Permanant expansion shall not be more than 10% of total expansion while tested at 35kgf/cm ² for 30 sec. Test done on Sr. No. :1505A	One (from every 500 nos)	1.3% deformation found for 31st batch
9	8.9.1.2	Hydraulic test of body	Cylinders shall be subjected to the test pressure (i.e.35kgf/cm ²) for at least 2.5 Min.	Each	Pass
10	8.4.1	Material : Low carbon steel	As per IS 16018:2012	One per batch of 500	Pass
11	8.6	Minimum wall thickness	Based on formula given in standard, minimum wall thickness for 300mm diameter is 2.6mm and for 400mm diameter is 3.5mm	Each	Pass
12	8.7	Caps, valves and closures	As per IS 16018:2012 requirements	One	Pass
13	8.8.1.2	Safety devices	Operating pressure of safety device shall not exceed 35kgf/cm ² nor be less than 17kgf/cm ²	Two	Operating pressure of safety device is 20kgf/cm ²
14	8.9.2.2	Loss of Pressure	As per IS 16018:2012	One	Pass
15	8.11.1	Discharge assembly	Length of hose Min.4 mtr for capacity more than 25kg/25ltr and Min 1.5 mtr for capacity less than or equal to 25kg/25ltr.	Each	4 mtr
16	8.11.3	Discharge assembly	Burst Pressure of discharge hose shall not be less than 50kgf/cm ²	Two from every 7th batch	53kgf/cm ² burst pressure found for 29th batch
17	8.14	Method of Operation	Energy require to operate the cap plunger shall be maximum 3 J	One from every 10th batch	2 J for 31st batch
18	8.15	Safety locking device	To release safety locking device,required force shall be in between 20N to 100N	One from every 10th batch	75 N for 31st batch
19	8.18	Carriage assembly	As per IS 16018:2012	One	Pass
20	9.1	Colour	Colour shall be red	All	P.O.Red as per IS 5
21	--	Anticorrosive treatment & Painting	Phosphate treatment followed by Pure polyester Powder coating with DFT not less than 50 μ .	All	(65-90) μ
22	9.2	Marking	As per IS 16018:2012	All	Pass
23	9.3	Operating Instruction	As per IS 16018:2012	All	Pass
24	TYPE TESTS	1) Performance Requirements 2) Resistance to Temp. Change 3) Resistance to corrosion 4) Fire Performance test 5) Maximum service pressure test 6) Pressure cycling test	As per IS 16018:2012	As per Scheme of Testing	Pass
25	--	Dimesions & Completeness	Diameter: 300 $\pm$ 10 mm, Height: 1000 mm Approx	All	Pass

Remarks: This is to certify that the Mechanical Foam Type Fire Extinguisher (Trolley mounted) of Capacity 45 Ltr. meets the requirements of IS 16018:2012 and confirms to IS 16018:2012.



Authorized Signatory