

DRAFT TECHNICAL SPECIFICATIONS FOR 9LITERS CAF BASED WATER

MIST FIRE FIGHTING SYSTEM BELOW 30 BAR PRESSURE.

01. The water mist and CAF fire extinguishers shall work below 30 bar and have a capacity of 9 Liters.
02. The complete system should be tested for construction and performance as per EN 3-7-2004+, A1:2007 from a NABL accredited laboratory only.
03. The water container to be strain less steel (Test report of the steel being used to be submitted from a NABL accredited test lab).
04. Gross weight below 27 Kg.
05. Water container to have a pressure gauge to give reading of the pressure created by an external pressure source on activation.
06. The system should have a pressure release safety valve.
07. System should have a handle on the top to carry.
08. System should have a backpack designed ergonomically for the back mounting by a user and to be comfortable when being carried.
09. The backpack harness should be made of fire retardant material and a test report as per IS: 15758 (part-4): 2007 to be submitted.
10. The air booster cylinder should have the following specifications;
 - a) Capacity 4.7 Liters. volume.
 - b) Pressurized to 300 bar at 60⁰C.
 - c) Should be carbon composite cylinder with PESO approval.
 - d) With a pressure gauge.
11. The hose length minimum 1.3 Mtrs.
12. Fire Rating: 27A, 233B with AFFF foam & 1000 Volts tested a NABL accredited laboratory.
13. Dielectric test for 35KV from ERDA.
14. Operating temperature range: + 5⁰C to + 60⁰C.
15. Duration of non-stop operation: Min 20 sec & Max 23 sec.
16. Residue as a% of the nominal charge, after a discharge =0%
17. Lancing distance: Min.13 Mtrs.
18. Weight of the stainless steel gun: 1.5 kg +/- 10%.
19. Dynamic working pressure = Low pressure variant with following
At + 60⁰C = <10 Bar
At + 5⁰C =<10 bar

20. For CAF, AFFF foam with UL 162 certification to be used. Test report from NABL accredited laboratory to be submitted for the foam.
21. The water mist gun should have a jet mode and a spray mode which can be changed by a twist without stopping the usage of the gun.
22. Material of the gun: SS316/316 L tested by a NABL accredited laboratory for all the gun parts including the valves, inlet pipes, washers. Nozzle, nozzle pipe nozzle head etc.
23. Only an OEM or an authorized vender can be bid for the tender.
24. Product should be CE marked with PED certification.
25. The firm bidding for the tender should have supplied the offered item/model in quantity of at least 3 times of the tender quantity to Government departments in the previous financial years(Order copies to be submitted along with the list of clients)
26. All test reports should be of no earlier than 1st Jan 2014.
27. The manufacture should have a PESO license to fill and store high pressure cylinders.
28. There should be an availability of belt clip on the harness belt to hang the gun to allow free movement of user's hand.