

Capacity Assessment

Fire extinguisher Firemill Original

2018-11-09

	Name	Signature
Witnessed & Approved	Kristoffer Uulas	

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Client: Inventi Vidi AB

Certification body: DNV GL

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The purpose of the project is to quantify the capacity of the fire extinguisher. A couple of the tests are based on the EN-3 standard but have been scaled down both in terms of time and in terms of dimensions. Class A and B of EN-3 comes with many underlying specific requirements not only in terms of time and dimensions. However, we have based the tests on its fundamental basis which are the dimensions and they would correspond to 5A and 5B respectively. We have however, given them our own names so that there will be no misunderstandings.

The tests are presented in a table with the following layout.

Explanation of the table:

- Test.no. – Number of each test.
- Requirements –the requirement which is tested.
- Test Description – A short formulation of how the test should implemented.
- Tested in – Where to perform the test,
- Approved – If a requirement is implemented with desirable results, it will be marked as Approved. If a requirement is not is met it will Also be marked here with a description why.

Test.no.	Requirements	Test description	Tested in	Approved	Comment
1	Fluid40cm	The vessel should have a diameter of 40 cm with 2 liters of water and 1.5 liters of petrol. The petrol should be ignited and then burn for 1 minute, at what point test fire can be considered as established and extinguishing can commence within 10 sec. TM should put the extinguisher into use and direct the beam to the test fire while moving at his/hers discretion to achieve the best results. The entire contents of the extinguisher can be used either continuously or in successive bursts.	Ågesta	Yes 9-11-18	No remarks
2	Fire in Frying pan	Frying pan with fat burning. Ignite with burner. Completely personalized test to simulate home environment. No reference to EN-3. 1 dl of cooking oil with 1 min burn time before extinguishing. The heat source is turned off before commencing extinguishing.	Ågesta	Yes 9-11-18	No remarks
3	Fire in wooden rods	Wooden stack which is 4x4x4 dm. Fire is lit with a vessel of petrol underneath for 1 minute and then 30 seconds without gasoline. Total burn time in this test is 1,5 min.	Ågesta	Yes 9-11-18	No remarks
4	X1	The effective distance of the extinguisher. The effective distance is measured by controlling at which distance a fire of 10 cm diameter with gasoline can be extinguished.	Ågesta	9-11-18	Effective distance 1.5 m
5	X2	Time to empty 1 tube, 3pcs	Ågesta	9-11-18	Tub1: 8,97 sek tub 2: 9,52 sek tub 3: 9,56 sek