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 Part Number: Part Title: Subpart: Subpart Title: Standard Number: Title: 	1910 Occupational Safety and L Fire Protection <u>1910.157</u>		ards				
• Title:	Portable fire extinguisher	5.					
1910.157(a) Scope and application. The requirem portable fire extinguishers provided for provided for employee use on the outsi not intended for employee use and the requirements of 29 CFR 1910.38 and 29 this section apply.	the use of employees. Para de of workplace buildings o employer has an emergence	agraph (d) of or structures. V cy action plan	this section d Where exting and a fire pr	oes not apply to ex uishers are provide evention plan that	tinguishers d but are meet the		
<u>1910.157(b)</u>							
Exemptions.							
1910.157(b)(1) Where the employer has established an evacuation of employees from the work action plan and a fire prevention plan w and when extinguishers are not availabl unless a specific standard in part 1910	place upon the sounding of which meet the requirement le in the workplace, the em	f a fire alarm ts of 29 CFR 1 pployer is exer	signal and wh 1910.38 and 2 mpt from all r	nich includes an em 29 CFR 1910.39 res	nergency pectively,		
1910.157(b)(2)							
1910.157(b)(2)							
Where the employer has an emergency employees to be the only employees au employees in the fire area to immediate employer is exempt from the distribution	Ithorized to use the availab ely evacuate the affected w	le portable fir vork area upoi	e extinguishe n the soundin	rs, and which requi	ires all other		
1910.157(c)							
General requirements.							
1910.157(c)(1)							
The employer shall provide portable fire accessible to employees without subject	-		nd identify th	em so that they are	e readily		
1910.157(c)(2)							
Only approved portable fire extinguishe	rs shall be used to meet th	ne requiremen	ts of this sect	ion.			
1910.157(c)(3)							
The employer shall not provide or make chlorobromomethane extinguishing age		e portable fire	extinguishers	using carbon tetra	chloride or		
1910.157(c)(4)							
The employer shall assure that portable in their designated places at all times e		ntained in a fu	ully charged a	nd operable conditi	ion and kept		
1910.157(c)(5)							
The employer shall remove from service cartridge water type portable fire exting to initiate an uncontrollable pressure ge	juishers which are operated	d by inverting	the extinguis				
1910.157(d)							

1910.157(d)

Selection and distribution.

1910.157(d)(1)

Portable fire extinguishers shall be provided for employee use and selected and distributed based on the classes of anticipated workplace fires and on the size and degree of hazard which would affect their use.

1910.157(d)(2)

The employer shall distribute portable fire extinguishers for use by employees on Class A fires so that the travel distance for employees to any extinguisher is 75 feet (22.9 m) or less.

1910.157(d)(3)

The employer may use uniformly spaced standpipe systems or hose stations connected to a sprinkler system installed for emergency use by employees instead of Class A portable fire extinguishers, provided that such systems meet the respective requirements of 1910.158 or 1910.159, that they provide total coverage of the area to be protected, and that employees are trained at least annually in their use.

1910.157(d)(4)

The employer shall distribute portable fire extinguishers for use by employees on Class B fires so that the travel distance from the Class B hazard area to any extinguisher is 50 feet (15.2 m) or less.

1910.157(d)(5)

The employer shall distribute portable fire extinguishers used for Class C hazards on the basis of the appropriate pattern for the existing Class A or Class B hazards.

1910.157(d)(6)

The employer shall distribute portable fire extinguishers or other containers of Class D extinguishing agent for use by employees so that the travel distance from the combustible metal working area to any extinguishing agent is 75 feet (22.9 m) or less. Portable fire extinguishers for Class D hazards are required in those combustible metal working areas where combustible metal powders, flakes, shavings, or similarly sized products are generated at least once every two weeks.

1910.157(e)

Inspection, maintenance and testing.

1910.157(e)(1)

The employer shall be responsible for the inspection, maintenance and testing of all portable fire extinguishers in the workplace.

1910.157(e)(2)

Portable extinguishers or hose used in lieu thereof under paragraph (d)(3) of this section shall be visually inspected monthly.

1910.157(e)(3)

The employer shall assure that portable fire extinguishers are subjected to an annual maintenance check. Stored pressure extinguishers do not require an internal examination. The employer shall record the annual maintenance date and retain this record for one year after the last entry or the life of the shell, whichever is less. The record shall be available to the Assistant Secretary upon request.

1910.157(e)(4)

The employer shall assure that stored pressure dry chemical extinguishers that require a 12-year hydrostatic test are emptied and subjected to applicable maintenance procedures every 6 years. Dry chemical extinguishers having non-refillable disposable containers are exempt from this requirement. When recharging or hydrostatic testing is performed, the 6-year requirement begins from that date.

..1910.157(e)(5)

1910.157(e)(5)

The employer shall assure that alternate equivalent protection is provided when portable fire extinguishers are removed from service for maintenance and recharging.

1910.157(f)

Hydrostatic testing.

1910.157(f)(1)

The employer shall assure that hydrostatic testing is performed by trained persons with suitable testing equipment and facilities.

1910.157(f)(2)

The employer shall assure that portable extinguishers are hydrostatically tested at the intervals listed in Table L-1 of this section, except under any of the following conditions:

1910.157(f)(2)(i)

When the unit has been repaired by soldering, welding, brazing, or use of patching compounds;

1910.157(f)(2)(ii)

When the cylinder or shell threads are damaged;

1910.157(f)(2)(iii)

When there is corrosion that has caused pitting, including corrosion under removable name plate assemblies;

1910.157(f)(2)(iv)

When the extinguisher has been burned in a fire; or

1910.157(f)(2)(v)

When a calcium chloride extinguishing agent has been used in a stainless steel shell.

1910.157(f)(3)

In addition to an external visual examination, the employer shall assure that an internal examination of cylinders and shells to be tested is made prior to the hydrostatic tests.

TABLE L-1

Type of extinguishers	Test interval (years)
Soda acid (soldered brass shells) (until 1/1/82)	(1)
Soda acid (stainless steel shell)	5
Cartridge operated water and/or antifreeze	5
Stored pressure water and/or antifreeze	5
Wetting agent	5
Foam (soldered brass shells) (until 1/1/82)	(1)
Foam (stainless steel shell)	5
Aqueous Film Forming foam (AFFF)	5
Loaded stream	5
Dry chemical with stainless steel	5
Carbon Dioxide	5
Dry chemical, stored pressure, with mild steel, brazed brass or aluminum shells Dry chemical, cartridge or cylinder operated, with mild steel shells	12
Halon 1211	12
Halon 1301	12
Dry powder, cartridge or cylinder operated with mild steel shells	12
	12

¹Extinguishers having shells constructed of copper or brass joined by soft solder or rivets shall not be hydrostatically tested and shall be removed from service by January 1, 1982. (Not permitted)

..1910.157(f)(4)

1910.157(f)(4)

The employer shall assure that portable fire extinguishers are hydrostatically tested whenever they show new evidence of corrosion or mechanical injury, except under the conditions listed in paragraphs (f)(2)(i)-(v) of this section.

1910.157(f)(5)

The employer shall assure that hydrostatic tests are performed on extinguisher hose assemblies which are equipped with a shut-off nozzle at the discharge end of the hose. The test interval shall be the same as specified for the extinguisher on which the hose is installed.

1910.157(f)(6)

The employer shall assure that carbon dioxide hose assemblies with a shut-off nozzle are hydrostatically tested at 1,250 psi (8,620 kPa).

1910.157(f)(7)

The employer shall assure that dry chemical and dry powder hose assemblies with a shut-off nozzle are hydrostatically tested at 300 psi (2,070 kPa).

1910.157(f)(8)

Hose assemblies passing a hydrostatic test do not require any type of recording or stamping.

1910.157(f)(9)

The employer shall assure that hose assemblies for carbon dioxide extinguishers that require a hydrostatic test are tested within a protective cage device.

..1910.157(f)(10)

1910.157(f)(10)

The employer shall assure that carbon dioxide extinguishers and nitrogen or carbon dioxide cylinders used with wheeled extinguishers are tested every 5 years at 5/3 of the service pressure as stamped into the cylinder. Nitrogen cylinders which comply with 49 CFR 173.34(e)(15) may be hydrostatically tested every 10 years.

1910.157(f)(11)

The employer shall assure that all stored pressure and Halon 1211 types of extinguishers are hydrostatically tested at the factory test pressure not to exceed two times the service pressure.

1910.157(f)(12)

The employer shall assure that acceptable self-generating type soda acid and foam extinguishers are tested at 350 psi

(2,410 kPa).

1910.157(f)(13)

Air or gas pressure may not be used for hydrostatic testing.

1910.157(f)(14)

Extinguisher shells, cylinders, or cartridges which fail a hydrostatic pressure test, or which are not fit for testing shall be removed from service and from the workplace.

1910.157(f)(15)(i)

The equipment for testing compressed gas type cylinders shall be of the water jacket type. The equipment shall be provided with an expansion indicator which operates with an accuracy within one percent of the total expansion or .1cc (.1mL) of liquid.

1910.157(f)(15)(ii)

The equipment for testing non-compressed gas type cylinders shall consist of the following:

..1910.157(f)(15)(ii)(A)

1910.157(f)(15)(ii)(A)

A hydrostatic test pump, hand or power operated, capable of producing not less than 150 percent of the test pressure, which shall include appropriate check valves and fittings;

1910.157(f)(15)(ii)(B)

A flexible connection for attachment to fittings to test through the extinguisher nozzle, test bonnet, or hose outlet, as is applicable; and

1910.157(f)(15)(ii)(C)

A protective cage or barrier for personal protection of the tester, designed to provide visual observation of the extinguisher under test.

1910.157(f)(16)

The employer shall maintain and provide upon request to the Assistant Secretary evidence that the required hydrostatic testing of fire extinguishers has been performed at the time intervals shown in Table L-1. Such evidence shall be in the form of a certification record which includes the date of the test, the signature of the person who performed the test and the serial number, or other identifier, of the fire extinguisher that was tested. Such records shall be kept until the extinguisher is hydrostatically retested at the time interval specified in Table L-1 or until the extinguisher is taken out of service, whichever comes first.

1910.157(g)

Training and education.

1910.157(q)(1)

Where the employer has provided portable fire extinguishers for employee use in the workplace, the employer shall also provide an educational program to familiarize employees with the general principles of fire extinguisher use and the hazards involved with incipient stage fire fighting.

1910.157(g)(2)

The employer shall provide the education required in paragraph (g)(1) of this section upon initial employment and at least annually thereafter.

1910.157(g)(3)

The employer shall provide employees who have been designated to use fire fighting equipment as part of an emergency action plan with training in the use of the appropriate equipment.

1910.157(g)(4)

The employer shall provide the training required in paragraph (g)(3) of this section upon initial assignment to the designated group of employees and at least annually thereafter.

[45 FR 60708, Sept. 12, 1980; 46 FR 24557, May 1, 1981, as amended at 51 FR 34560, Sept. 29, 1986; 61 FR 9227, March 7, 1996; 67 FR 67964, Nov. 7, 2002]

👍 Next Standard (1910.158)

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U.S. Department of Labor | Occupational Safety & Health Administration | 200 Constitution Ave., NW, Washington, DC 20210 Telephone: 800-321-OSHA (6742) | TTY: 877-889-5627

www.OSHA.gov