TABLE 6—Canister Bench Tests and Requirements for Chin-Style Gas Mask Canisters [42 CFR part 84, subpart I]

Canister type	Test condition	Test atmosphere				Maximum	Minimum
		Gas or vapor	Concentra- tion (parts per million)	Flow rate (liters per minute)	Number of tests	penetra- tion (parts per million)	life (min- utes) ¹
Combination of 2 or 3 of above types ⁵ Combination of all above types ⁶		со	3,000	² 32	3	(3)	60

¹ Minimum life will be determined at the indicated penetration.

² Relative humidity of test atmosphere will be 95 \pm 3pct; temperature of test atmosphere will be 25 \pm 2.5° C.

³Maximum allowable CO penetration will be 385 cm³ during the minimum life. The penetration shall not exceed 500 p/m during this time.

⁴ Relative humidity of test atmosphere will be 95 ± 3pct; temperature of test atmosphere entering the test fixture will be 0 ± 2.5° C – 0° C.

⁵Test conditions and requirements will be applicable as shown in this table.

⁶Test conditions and requirements will be applicable as shown in this table, except the minimum service lives for acid gas, organic vapor, and ammonia will be 6 min instead of 12 min.

TABLE 7.—CANISTER BENCH TESTS AND REQUIREMENTS FOR ESCAPE GAS MASK CANISTERS

[42 CFR part 84, subpart I]

	Test condition	Test atmosphere				Maximum	Minimum
Canister type		Gas or vapor	Concentra- tion (parts per million)	Flow rate (liters per minute)	Number of tests	penetra- tion (parts per million)	life (min- utes) 1
Acid gas	As received	SO ₂	5,000	64	3	5	12
-	Equilibrated	Cl_2	5,000	64	3	5	12
		SO_2	5,000	32	4	5	12
		Cl_2	5,000	32	4	5	12
Organic vapor	As received		5,000	64	3	5	12
	Equilibrated		5,000	32	4	5	12
Ammonia	As received	NH ₃	5,000	64	3	50	12
	Equilibrated	NH ₃	5,000	32	4	50	12
Carbon monoxide	As received	CO	10,000	² 32	2	(3)	⁴ 60
		CO	5,000	⁵ 32	3	(3)	60
		CO	3,000	² 32	3	(3)	60

¹ Minimum life will be determined at the indicated penetration.

²Relative humidity of test atmosphere will be $95 \pm 3pct$; temperature of test atmosphere will be $25\pm 2.5^{\circ}$ C.

³Maximum allowable CO penetration will be 385 cm³ during the minimum life. The penetration shall not exceed 500 p/m during this time.

⁴ If effluent temperature exceeds 100° C during this test, the escape gas mask shall be equipped with an effective heat exchanger. ⁵ Relative humidity of test atmosphere will be 95±3 pct; temperature of test atmosphere entering the test fixture will be 0±2.5° C—0° C.

Subpart J—Supplied-Air Respirators

§84.130 Supplied-air respirators; description.

Supplied-air respirators, including all completely assembled respirators designed for use as respiratory protection during entry into and escape from atmospheres not immediately dangerous to life or health are described as follows:

(a) *Type "A" supplied-air respirators.* A hose mask respirator, for entry into and escape from atmospheres not immediately dangerous to life or health, which consists of a motor-driven or hand-operated blower that permits the free entrance of air when the blower is not operating, a strong large-diameter hose having a low resistance to airflow, a harness to which the hose and the life-line are attached and a tight-fitting facepiece.

(b) *Type "AE" supplied-air respirators.* A Type "A" supplied-air respirator equipped with additional devices designed to protect the wearer's head and neck against impact and abrasion from rebounding abrasive material, and with shielding material such as plastic, glass, woven wire, sheet metal, or other suitable material to protect the window(s) of facepieces, hoods, and helmets which do not unduly interfere with the wearer's vision and permit easy access to the external surface of such window(s) for cleaning.

(c) *Type "B" supplied-air respirators.* A hose mask respirator, for entry into and escape from atmospheres not immediately dangerous to life or health, which consists of a strong large-diameter hose with low resistance to airflow through which the user draws inspired air by means of his lungs alone,

a harness to which the hose is attached, and a tight-fitting facepiece.

(d) *Type "BE" supplied-air respirators.* A type "B" supplied-air respirator equipped with additional devices designed to protect the wearer's head and neck against impact and abrasion from rebounding abrasive material, and with shielding material such as plastic, glass, woven wire, sheet metal, or other suitable material to protect the window(s) of facepieces, hoods, and helmets which do not unduly interfere with the wearer's vision and permit easy access to the external surface of such window(s) for cleaning.

(e) *Type "C" supplied-air respirators.* An airline respirator, for entry into and escape from atmospheres not immediately dangerous to life or health, which consists of a source of respirable breathing air, a hose, a detachable coupling, a control valve, orifice, a