

Oxygen (O₂) USP

Cylinder Color: Green

A colorless, odorless gas that makes up about one-fifth of the earth's atmosphere (21% by volume). Oxygen is not flammable, but it causes combustible materials to burn vigorously. Never permit oil, grease or other combustibles to come in contact with pure oxygen or associated equipment.

Medical Applications

Used in first aid treatment of emergencies such as suffocation and heart attacks, in the treatment of patients with respiratory disorders, in anesthesia and in hyperbaric oxygen chambers for treatment of carbon monoxide poisoning, gas gangrene and other specialized oxygen therapies.

CAUTION. For emergency use only when administered by properly trained personnel for oxygen deficiency and resuscitation. For all other medical applications Rx only.

PURITY SPECIFICATIONS

Major Hazards . . . Vigorously Accelerates Combustion & High Pressure
Exposure Limit None
Fire Potential Highly Oxidizing
Odor None
Mol. Wt. 32.00
Sp. Gr. (Air = 1) 70° F (21° C) 1.105
Critical Temperature -181.1° F (-118° C)
Critical Pressure 737.1 psia (51.8 kg/cm²abs)
Specific Volume 12.1 ft³/lb at 70°F (0.75 m³/kg at 15° C)
CAS Registry No. 7782-44-7
DOT Description Oxygen, Compressed, 2.2, UN1072
 Oxygen, Refrigerated Liquid, 2.2, UN1073

PURITY SPECIFICATIONS

USP 99.0% O₂, min.
CO** <10 ppm
CO₂** <300 ppm
Odor None detected

**Oxygen made by the air liquefaction process and when so labeled, is exempt from these tests.

VALVE CONNECTION	CYLINDER SIZE	CONTENTS	PRESSURE psig @ 70° F	NOMINAL GROSS WT.	PART NUMBER	RECOMMENDED Regulator or Valve	PAGE
CGA 540 (Threaded)	300	337 ft ³ 9.54 m ³	2640 psig 185.6 kg/cm ²	175 lb 80.6 kg	OX USP300+	Regulator	51 to 61
CGA 540 (Threaded)	250	280 ft ³ 7.93 m ³	2490 psig 185.6 kg/cm ²	170 lb 77.3 kg	OX USP250+	Regulator	51 to 61
CGA 540 (Threaded)	200	249 ft ³ 7.05 m ³	2200 psig 154.7 kg/cm ²	153 lb 69.5 kg	OX USP200+	Regulator	51 to 61
CGA 870 (Pin-Indexed)	ME	24.9 ft ³ 0.70 m ³	2015 psig 140.6 kg/cm ²	16.5 lb 7.48 kg	OX USPME	Regulator	51 to 61
CGA 870 (Pin-Indexed)	EA*	24.1 ft ³ 0.68 m ³	2015 psig 140.6 kg/cm ²	13.2 lb 5.97 kg	OX USPEA	Regulator	51 to 61
CGA 870 (Pin-Indexed)	ED	20.9 ft ³ 0.59 m ³	2200 psig 140.6 kg/cm ²	14 lb 6.35 kg	OX USPED	Regulator	51 to 61
CGA 870 (Pin-Indexed)	MD	15.3 ft ³ 0.43 m ³	2015 psig 140.6 kg/cm ²	10.7 lb 4.85 kg	OX USPMD	Regulator	51 to 61
CGA 870 (Pin-Indexed)	DA*	14.6 ft ³ 0.41 m ³	2015 psig 140.6 kg/cm ²	10.7 lb 4.85 kg	OX USPDA	Regulator	51 to 61
CGA 540 (Threaded) CGA 440 (3/8" Flare) Liquid Withdrawal	180LT	5470 ft ³ 152 m ³	50 psig** 3.52 kg/cm ²	723 lb 329 kg	OX USP180LT	—	—
CGA 540 (Threaded) CGA 440 (3/8" Flare) Liquid Withdrawal	160LT	4910 ft ³ 136 m ³	50 psig** 3.52 kg/cm ²	662 lb 301 kg	OX USP160LT	—	—

*Aluminum cylinder

Bulk liquid oxygen is also available. Please contact your Puritan Medical Products branch for details.

CGA 870 valves available with standard stem; plastic knob; toggle; contents gauge. Contact your Puritan Medical Product branch for details.

**Liquid units available with other pressure settings, contents will vary.