

# Pulmonary Function & Lung Diffusion Mixtures

## Pulmonary Function Mixtures

Pulmonary function testing is a noninvasive means of evaluating lung and heart efficiency. It is used in both critical care and diagnostics. Applications include wellness and disability evaluations, rehabilitation fitness, neonatology, intensive care and diagnosis of pulmonary, cardiovascular and gastrointestinal disorders. The Puritan Medical Products pulmonary function testing line of specialty gases consists of lung diffusion mixtures and stress exercise calibration standards. All mixtures are made with U.S.P./N.F. components when applicable.

## Lung Diffusion Mixtures

Lung diffusion mixtures are used by licensed practitioners to perform pulmonary function testing. The patient inhales the mixture, which includes a low percentage of carbon monoxide. The exhaled breath is then analyzed to determine how well the patient's lungs have diffused carbon monoxide. Helium is present in the mixture to determine lung volume. Very low percentages of methane or neon may be used in place of helium, depending on the method of analysis of the instrument. These lung diffusion mixtures may also be used to calibrate the analyzer.

Lung diffusion mixtures are made to *Precision* specifications.  
**Federal (U.S.) law prohibits dispensing without a prescription.**

MIXTURE COMPOSITION	CYLINDER SIZE	CGA CONNECTION	CONTENTS		PRESSURE PSIG @ 70° F	PART NUMBER Precision Blend
			Cu Ft	Liters		
<b>0.3% Carbon Monoxide, 10% Helium, 21% Oxygen, Balance Nitrogen</b> (Single Breath)	200	500	175	4950	1680	Z04 NI68F200Y006
	ME	973	19	550	1680	Z04 NI68FMEY009
	ED	973	16	460	1830	Z04 NI68FEDY007
<b>0.3% Carbon Monoxide, 0.3% Neon, 21% Oxygen, Balance Nitrogen</b> (Single Breath)	200	500	175	4950	1680	Z04 NI78F200Y014
	ME	973	19	550	1680	Z04 NI78FMEY020
	ED	973	16	460	1830	Z04 NI78FEDY017
<b>0.3% Carbon Monoxide, 0.5% Neon, 21% Oxygen, Balance Nitrogen</b> (Single Breath)	200	500	175	4950	1680	Z04 NI78F200Y015
	ME	973	19	550	1680	Z04 NI78FMEY021
	ED	973	16	460	1830	Z04 NI78FEDY018
<b>0.3% Carbon Monoxide, 0.3% Methane, 21% Oxygen, Balance Nitrogen</b> (Single Breath)	200	500	175	4950	1680	Z04 NI78F200Y016
	ME	973	19	550	1680	Z04 NI78FMEY022
	ED	973	16	460	1830	Z04 NI78FEDY019
<b>0.1% Carbon Monoxide, 21% Oxygen, Balance Nitrogen</b> (Steady State)	200	500	175	4950	1680	Z03 NI78F200Y038
	ME	973	19	550	1680	Z03 NI78FMEY042
	ED	973	16	460	1830	Z03 NI78FEDY040
<b>0.5% Acetylene, 21% Oxygen, Balance Nitrogen</b> (Capillary Blood Volume)	200	500	175	4950	1680	Z03 NI78F200Y039
	ME	973	19	550	1680	Z03 NI78FMEY043
	ED	973	16	460	1830	Z03 NI78FEDY041

**i Recommended regulator: Model 40, Page 55**

\*Supply based on availability of C<sup>18</sup>O.

Contact your local Puritan Medical Products gas branch for mixtures not listed.