AIR PRODUCTS

VI NA INDUSTRIAL GASES

Major Application and Mixture Description

Therapy – Medical Drug Gases

Carbon Dioxide 5%/Oxygen
Carbon Dioxide 10%/Oxygen
Oxygen 20%/Helium
Oxygen 30%/Helium

Diagnostic – Medical Device Gases

Lung Diffusion for Pulmonary Function Studies

Carbon Monoxide 0.3%, Helium 10%, Oxygen 21%/N_2
Carbon Monoxide 0.3%, Neon 0.5%, Oxygen 21%/N_2
Carbon Monoxide 0.3%, Methane 0.3%, Oxygen 21%/N_2
Acetylene 0.3%, Carbon Monoxide 0.3%, Methane 0.3%, Oxygen 21%/N_2

Diagnostic – Blood Gas Analysis

Carbon Dioxide 2-14%/Nitrogen
Carbon Dioxide 7-12%/Oxygen
Oxygen 1-19%/Nitrogen
Carbon Dioxide 2-12%, Oxygen 12-25%/Nitrogen

Biological Incubation Atmospheres

Mixture Description

Carbon Dioxide 1.0-7.0%/Oxygen
Carbon Dioxide 7.1-12.0%/Oxygen
Carbon Dioxide 12.1-23%/Oxygen
Carbon Dioxide 23.1-50%/Oxygen
Oxygen 18.0-23.5%/Helium
Oxygen 23.6-50%/Helium
Oxygen 23.5-50%/Nitrogen
Liquid-Med Analgesic Gas (O_2 50%/Nitrous Oxide)
Carbon Dioxide 1.0-15%, Oxygen 21%/Nitrogen
Carbon Dioxide 15.1-30%, Oxygen 21%/Nitrogen
Carbon Dioxide 30.1-50%, Oxygen 21%/Nitrogen
CO 0.3%, Helium 10%, Oxygen 21%/Nitrogen
CO 0.3%, Neon 0.5%, Oxygen 21%/Nitrogen

Biological Incubation Atmospheres

Carbon Dioxide 1.0-7.0%/Oxygen
Carbon Dioxide 7.1-12.0%/Oxygen
Carbon Dioxide 12.1-23%/Oxygen
Carbon Dioxide 23.1-50%/Oxygen
Oxygen 18.0-23.5%/Helium
Oxygen 23.6-50%/Helium
Oxygen 23.5-50%/Nitrogen
Liquid-Med Analgesic Gas (O_2 50%/Nitrous Oxide)
Carbon Dioxide 1.0-15%, Oxygen 21%/Nitrogen
Carbon Dioxide 15.1-30%, Oxygen 21%/Nitrogen
Carbon Dioxide 30.1-50%, Oxygen 21%/Nitrogen
CO 0.3%, Helium 10%, Oxygen 21%/Nitrogen
CO 0.3%, Neon 0.5%, Oxygen 21%/Nitrogen

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STERILIZING GAS MIXTURES

COMPONENTS			
12% Ethylene Oxide Balance Dichlorofluoromethane (R12)			
8.6% Ethylene Oxide Balance Chlorotetrafluoroethane (R124)			
10%-20% Ethylene Oxide Balance Carbon Dioxide			

BIOLOGICAL ATMOSPHERE GAS MIXTURES

COMPONENTS			
ANAEROBIC GROWTH MIXTURE 3% Hydrogen Balance Carbon Dioxide			
ANAEROBIC GROWTH MIXTURE 0.5%-10% Carbon Dioxide Balance Nitrogen			
ANAEROBIC GROWTH MIXTURE 0.5%-10% Carbon Dioxide, 0.5%-10% Hydrogen Balance Nitrogen			
AEROBIC GROWTH MIXTURE 0.5%-10% Carbon Dioxide Balance Oxygen			
AEROBIC GROWTH MIXTURE 0.5%-10% Carbon Dioxide Balance Air			

NITROUS OXIDE (N2O)

Nitrous Oxide U.S.P.

Specifcation

$N_2O \geq 99.0\%$
CO ≤ 10 ppm
Air ≤ 1.0%
$CO_2 \leq 300$ ppm
NO ≤ 1 ppm
$NO_2 \leq 1$ ppm
$NH_3 \leq 25$ ppm
Halogens ≤ 1 ppm
$H_2O \leq 200$ ppm

AIR PRODUCTS

VI NA INDUSTRIAL GASES

LASER EXCIMER GASES

COMPONENTS				
Ar F (193nm): 0.20% Fluorine, 9.0% Argon Balance Helium and/or Neon				
Kr F (248nm): 0.10% Fluorine, 1.0% Krypton Balance Helium or Neon				
Xe Cl (308nm): 0.06% Hydrogen Chloride, 0.03% Hydrogen, 1.5% Xenon, Balance Helium or Neon				

* Above are some typical excimer premixes, others include Xe F (351nm) and Kr Cl (222nm), For your particular requirements and application, please contact us for details.