

PRODUCT DATA SHEET

Air

Air, the earth's natural atmosphere, is a non-flammable, colourless and odourless mixture of gases in which nitrogen (78%) and oxygen (21%) predominate. The balance of less than 1% is composed of the rare gases helium, neon, argon, krypton and xenon. Supplied in high pressure in metal cylinders.

Hazards

- High pressure gas in cylinders
- A source of oxygen and will support combustion.

Classifications (Air Technical)

Gas Components	Purity
Air technical	–
Nitrogen	78%
Oxygen	21%
Argon	0,9%
Carbon dioxide	0,03%

Material Description	Mass (kg)	Cylinder Capacity (l)	Pressure @ 20°C (Bar)	Valve Outlet Connection	Item Number
AIR TEC CYL 8,5 kg	8,5	47,2	153	5/8" BSPF right hand female	12-RC

Higher grades and purities of this product are available from Afrox
Specifications are included in the 'Special Products and Chemicals' section

Classifications (Air Dry)

Gas	Purity
Air dry	Moisture \leq 5 vpm

Material Description	Mass (kg)	Cylinder Capacity (l)	Pressure @ 20°C (Bar)	Valve Outlet Connection	Item Number
AIR DRY CYL 8,5 kg	8,5	47,2	153	5/8" BSPF right hand female	13-RC

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Physical Data

Appearance/odour	Colourless and odourless
Molecular weight	28,96
Specific volume at 21,1°C and 101,325 kPa	830,3 l/kg
Boiling point at 101,325 kPa	194,35°C
Critical temperature	-140,6°C
Relative density (air = 1) at 1 atm	1,0
Density, gas at 101,325 kPa and 0°C	1,205 kg/m ³

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Uses and Features

- Industrial compressed air is employed as a source for burning and various industrial oxidation processes
- Other common uses include the operation of pneumatic tools, starting diesel engines and 'pigging' pipelines.

Precautions in Use

- Use only approved pressure rated equipment
- Never allow oil or grease on a cylinder or valve
- Open cylinder valve slowly
- Close cylinder valve when not in use
- Cylinders should be secured from falling over
- Refer to MSDS for more information.

Material Compatibility

- Dry air is non-corrosive and so any common metal is acceptable, provided the equipment is designed to withstand process pressure.

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