

Gas Cylinder Identification Chart for Medical Applications

| Gas / Mixture | Classification | BS EN 1089-3 (2011) | | ISIRI 712 (2017) | | ISO 32 (1977) | | ISIRI 304 | |
|-----------------|-------------------|---------------------|-------|------------------|-------|---------------|--------------|--------------|--------------|
| | | Shoulder | Body | Shoulder | Body | Shoulder | Body | Shoulder | Body |
| Air | Inert | White+ Black | White | White+ Black | White | White+ Black | White+ Black | White+ Black | White+ Black |
| Ammonia | Flammable | Yellow | White | Yellow | White | - | - | - | - |
| Argon | Inert | Dark Green | White | Dark Green | White | - | - | - | - |
| Carbon dioxide | Inert | Gray | White | Gray | White | Gray | Gray | Gray | Gray |
| Carbon monoxide | Flammable & Toxic | Yellow | White | Yellow | White | - | - | - | - |
| Ethylene | Flammable | - | - | - | - | Purple | Purple | Purple | Purple |
| Helium | Inert | Brown | White | Brown | White | Brown | Brown | Brown | Brown |
| Hydrogen | Flammable | Red | White | Red | White | - | - | - | - |
| Methane | Flammable | Red | White | Red | White | - | - | - | - |
| Nitrogen | Inert | Black | White | Black | White | Black | Black | Black | Black |
| Nitrous Oxide | Oxidizing | Blue | White | Blue | White | Blue | Blue | Blue | Blue |
| Oxygen | Oxidizing | White | White | White | White | White | White | White | White |

- Definition of medical gases:

Any gas or mixture of gases intended to be administered to patients for therapeutic, diagnostic or prophylactic purpose, with or without pharmacological action, or to be used for surgical tools, and it covers both medicinal and medical gases.

- In BS EN 1089-3 some gas mixture are identified with specific colors based on the concentration of specific gases such as Oxygen, Nitrogen, Helium, Carbon dioxide and ... which is mentioned in page 14 table D.1.