



GAS CYLINDERS STORAGE

According to the article 28 of the legislative decree 81/08, the evaluation of workers risks must include all the elements connected to their health and safety, from the tools and substances used in the execution of their job to the workplace appropriate setting.

The storage of dangerous substances, such as flammable liquids, acids and bases, compressed gases, etc., represents one of the biggest risk for the workers due to the possibility of creating explosive atmospheres, fires and other damages to people and/or things.

To reduce the risks, many research institutes and universities have individuated specific guidelines for the storage of cylinders that contain compressed gases and/or flammable materials, such as:

- Cylinders with different types of gas must be stored separately as well as full and empty cylinders. They must bear an identification tag stating the name of the gas or mixture and indicating if they are full, in service, or empty.
- Never store in the same place cylinders that contain types of gas that are incompatible with each other;
- Never store the gas cylinders in the same room where combustible materials or flammable substances are stored;
- All cylinders must be stored vertical and fixed to the wall or to any movable support with chains or any other suitable means, in order to avoid their overturning;
- All cylinders must be protected from any object that could cause cuts or abrasions to their metal surface;
- Do not expose gas cylinders to the direct rays of the sun or keep them close to heat sources or in rooms where temperature can reach or exceed 50°C;
- Do not leave the cylinders close to goods lifts, under footpaths or in places where heavy objects in movement can hit them and cause their fall;
- Periodically check the proper functioning of connections, valves, pipes and blowpipes and keep them clean;
- All firefighting means must be regularly checked;
- Do not smoke or use free flames;

Airbank warehouses for gas cylinders conform to the guidelines and to the legislative decree 81/08 disposals.