

Safe Storage of Non Refillable Cylinders (NRC) and Regulators

Guidance Only

Introduction

This information provided is for guidance only. For detailed safety information ALWAYS refer to the appropriate SDS datasheet.

Recommended Storage

Non refillable cylinders should be firmly secured to prevent falling or being knocked-over. When a gas cylinder is empty or not being used, ensure that the regulator is removed and the valve protector cap is secured in place.

Take measures to protect cylinders against physical damage. Where flammable gases are stored, all lighting and any other electrical equipment including tools used in that area must be flameproof and suitable for a hazardous area.

Cylinders must be protected from the environment and preferably kept at room temperature approximately 21°C (70°F). Cylinders should be stored in secure, dry, well-ventilated areas, and in fire resistant rooms away from sources of heat, ignition, and direct sunlight. Cylinders should never be subjected to conditions above 50°C or below -20°C. Aluminium Cylinders that have been subjected to fire or extreme heat should be safely vented if possible and disposed of immediately.

Please follow local regulations with regards to the segregation of flammable, non-flammable and oxidizing gases.



Watch the video here



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Moisture

When cylinders are stored in a cool environment there is a possibility that by moving them into a warm humid environment that moisture can form in the valve. Please take all measures to keep dry and remove any moisture from the cylinder prior to use.

When attaching a regulator please ensure the regulator is switched to the “on” position** to allow the gas to flow when the valve is depressed ensuring that any dust, debris or moisture is forced out of the valve through the cylinder and into the atmosphere. Failure to follow this process may lead to moisture entering the cylinder when the valve is open.

** Please ignore if there is no “on” position on the regulator i.e. DFR

Safety

When attaching a regulator to a non-refillable cylinder please ensure:

- There is no corrosion on the valve or regulator and that the correct regulator is selected for the application.
- The thread on the regulator is not worn, is intact and undamaged
- There is no dirt or debris in the valve or regulator including the gauge.
- That you always wear safety glasses and other necessary PPE when handling cylinders
- The cylinder is disposed of correctly and recycled as required

Non-refillable cylinders are designed for one-time use and **MUST never be refilled or re-used.**





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