



# **COMPRESSED ACETYLENE TRANSPORTABLE PRESSURE RECEPTACLE**

## **Specification HOAC 1**

**Specification for compressed acetylene transportable pressure receptacles (other than those complying with the requirements of Order of Secretary of State No. 9) which may be approved for use at premises authorised by one of H.M. Inspectors of Explosives for the manufacture and keeping of acetylene.**

## **1 Transportable Pressure Receptacle Shell**

The shell of the transportable pressure receptacle made to this specification shall :-

- (a) be of welded construction;
- (b) be made of a material and design approved for the time being by the Secretary of State;
- (c) have been subjected to a process of heat treatment approved, as at the time when the process was carried out, by the Secretary of State;
- (d) be capable of withstanding, with a permanent stretch not greater than 10% of the total temporary expansion at test pressure, an internal hydraulic pressure of 51.72 bar (seven hundred and fifty pounds per square inch).

## **2. Porous Substance**

The transportable pressure receptacle shall be fitted as completely as possible with a porous substance approved for the time being by the Secretary of State.

## **3. Compatibility**

There shall be no deleterious reaction between the porous mass, the acetylene, the solvent and any parts of the transportable pressure receptacle in contact with the acetylene; but the quantity of acetone shall be such that, when the transportable pressure receptacle is fully charged with acetylene, the liquid content shall not completely fill the available space within the transportable pressure receptacle at an ambient temperature of 65°C.

## **4. Pressure**

The pressure in the transportable pressure receptacle, when the latter has attained pressure and temperature equilibrium at an ambient temperature of 15°C , shall not exceed 17.65 bar (two hundred and fifty six pounds per square inch).

## **5. Safety**

The transportable pressure receptacle, anything fitted thereto and the porous substance contained therein shall be free from any defect calculated to render the transportable pressure receptacle unsafe.

## **6. Markings**

On the outside of the transportable pressure receptacle, as near as possible to the valve or valves, there shall be durably and legibly marked :-

- (a) the word "Acetylene";
- (b) the name of the manufacturer of the completed transportable pressure receptacle;
- (c) the serial number of the transportable pressure receptacle;
- (d) the type of porous substance contained in the transportable pressure receptacle;
- (e) the tare weight of the transportable pressure receptacle;
- (f) the maximum weight of available acetylene which may be safely charged into the transportable pressure receptacle.

For the purpose of this paragraph 'tare weight' in relation to any transportable pressure receptacle means the total weight of the shell of the transportable pressure receptacle, the valve or valves and any safety devices forming part of the transportable pressure receptacle, the porous substance and the solvent contained in the transportable pressure receptacle, the quantity of acetylene contained in the transportable pressure receptacle when the pressure therein is equal to that of the atmosphere, and any device permanently fixed directly to the transportable pressure receptacle for the protection of a valve but excluding any removable cap.

## **7. Marking Relating to Last Charge**

On the outside of the transportable pressure receptacle there shall be legibly marked the date when, the name of the firm by whom and the address of the place where the transportable pressure receptacle was last charged.