

Hydrogen Cylinder

Hydrogen Storage Device for AP4C

CBRNegetics Ltd



The hydrogen storage device supplies the AP4C with hydrogen. It can be refilled 25 times or used as a consumable.

CBRNegetics offer a re-filling and servicing service for all our Proengin CBRN products at our technical centre. Contact us for details or to book in.

Packaging

- It is an aluminum cylinder with a shrouded connector that locks into the AP4C's handle.
- The device is filled with hydrogen adsorbed onto lanthanum nickel powder.
- The advantage of this method is that a large quantity of hydrogen can be stored without pressure, thus providing reliability in use and storage.
- The hydrogen storage device can be stored for 10 years.

Characteristics

- **Size:** L 168 mm \pm 26 mm (L 6.61" \pm 1.02")
- **Weight:** 230 gr
- **Autonomy:** 12 hours
- **Volume of hydrogen:** 24 liters
- **Operating temperature:** -32°C to +55°C ~ (-25.6°F to +131°F)
- **Storage temperature:** -39°C to +71°C (-38.2°F to +160°F)



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Material Safety Data Sheet (MSDS)

TRANSPORT EMERGENCY CARD (Road)

12/2005
UN 1049
Class 2

LOAD

HYDROGEN STORAGE DEVICE FOR AP4C

NATURE OF DANGER

- A storage device contains 2 gr. of H₂ under low pressure which may ignite if the device is brought up to a very high temperature in fire.
- A storage device contains 150 gr. of La Ni₅. If the metallic envelope of the storage device is torn open and if powder spills it ignites to air.
- In case the metallic envelopes of several devices are torn open the hydrogen that spills can ignite or provoke an explosion if it close to a flame or an electric device which cause a spark.

BASIC PERSONNAL PROTECTION

- Goggles giving complete protection to eyes.

IMMEDIATE ACTION BY DRIVER

- Notify police and fire brigade
- Stop the engine
- No naked lights. No smoking
- Mark roads and warn other road users
- Keep public away from danger area

SPILLAGE

- Do not repack if the metallic envelopes were torn
- In case of fire risk if some metallic envelopes are torn spread out the packs on some meters to avoid propagation

FIRE

- Extinguish the fire with a powder extinguisher for metals fires.

FIRST AID

- Seek medical treatment in case of burning or inhalation.

APPLIES ONLY DURING ROAD TRANSPORT