

CBR50i

CHEM BIO RESERVOIR



The CBR50i Chem Bio Reservoir is engineered to integrate with any Avon Protection Mask without the need for cumbersome adaptors. The CBR50i provides up to 3 litres of safe drinking water enabling the wearer to operate for long periods of time whilst wearing full CBRN protection clothing. DuraFlex Barrier™ technology resists live chemical and biological warfare agents in addition to common toxic industrial chemicals and materials. Suitable for everyday use, it is lightweight, durable, flexible and provides taste-free hydration on demand.

COMPATIBILITY

- Direct and adaptor-free connection to any Avon Mask via the integrated drinking tube.
- Fits inside any 3 Litre reservoir compartment or any CamelBak® pack with cargo or long neck fillport 3L ThermoBak® style carrier.

OPERATIONAL FEATURES

- 3+ hours of hydration refreshment and the freedom to focus on the mission by eliminating mask disconnection.
- 3 Litre reservoir holds warm or cold fluids.
- Big Bite Valve™ Adapter enables hands-free hydration when connection to the mask is not required.

TYPE A HYDROLOCK

- Quick Disconnect System provides seamless transition from an everyday hydration system to immediate mask integration.
- Kink-resistant drink tube ensure taste and odour free refreshment.
- Components ensure free liquid flow from the reservoir to the mask.
- HydroLock for easy, one handed ON/OFF water flow on drink tube.



HYDROGUARD™ TECHNOLOGY

- CamelBak® HydroGuard™ Technology inhibits the growth of bacteria on the reservoir and in the drinking tube.

MILITARY REQUIREMENTS

- Meets USSOCOM requirements for simple and fast connection to any Avon mask.
- Uses the CamelBak™ new generation chem/bio reservoir and tube that were tested and meet the requirement for the US Army Multi-purpose Personal Hydration System (MPPHS)*.
- Exceeds USACHPPM TG 230/ TB MED 577 military water quality guidelines for exposure to GB, TGD, VX and HD chemical warfare agents for 6 hours (the US Army standard).

MECHANICAL TEST DATA

Elevation / Pressure:

All seals, connection points and welds can withstand an internal pressure of greater than 4.5 psi (31 kPa) as well as rapid decompression without leaking.

Static Load:

Full reservoir, Type A HydroLock and HydroLink™ components and all adapters can withstand a 300 lb (136kg) flat plate static load, even when disconnected.

Impact:

Full reservoir, Type A HydroLock and HydroLink™ components and all adapters can withstand a vertical drop of 10 feet (3.05m).

Durability:

Type A HydroLock and HydroLink™ components can withstand a minimum 200 lb (90.7 kg) dynamic load (i.e. a 200 lb (90.7 kg) person stepping on an assembly with a combat boot).

OPERATIONAL ENVIRONMENT

Operational temperature range:

32°F (0°C) to +140°F (60°C)

Reservoir and drink tube are capable of withstanding freezing and is fully functional after thawing.

CHEMICAL AGENT TESTING

CBR50i Reservoir in conjunction with an Avon mask is designed to be fully operational in CBRN environments. Thoroughly tested at independent U.S. and international testing sites. Results available upon request.

TECHNICAL DATA

Capacity: 100 oz (3 Litres)

Dimensions: 6.9 in x 18.2 in x 1.4 in
(175mm x 462mm x 36mm)

Weight Empty: 0.87 lbs (394 g)

Weight Filled: 7.48 lbs (3.39 kg)

Shelf Life: At least 10 years, unopened, from point of delivery

* This statement does not imply an endorsement by any DoD agency. Military personnel are always encouraged to validate official approvals for use with their respective agencies. Contact Avon Protection for more details.