TECHNICAL DATASHEET & SAFETY INFORMATION

CleanAIR®

www.clean-air.cz

Non-rechargeable Li-MnO_2 batteries for CA Chemical 2F

Primary batteries

Primary battery
for CA Chemical 2F

Primary battery with RDD connector
for CA Chemical 2F

Description

Non-rechargeable Li-MnO_2 batteries for CleanAIR® Chemical 2F powered air-purifying respirators (PAPR). Designed for single use with a storage life of up to 10 years.

Application

Suitable for emergency teams, first responders, and other users who require respiratory protection systems intended for emergency or occasional use.

The variant with a connector for a Remote Display Device (RDD) allows monitoring of the unit when it is worn under protective suits or otherwise not visible to the user; apart from the added RDD connector, all technical parameters remain identical.

Malina Safety®

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Technical specification	*Primary battery*	*Primary battery for RDD*
Product code	510011	510013
Weight	0.28 kg	0.30 kg
Operation time	420 min*	
Voltage / capacity	18 V / 3.1 Ah (55.8 Wh)	
Dimensions	105 mm × 82 mm × 48 mm	
Cells	12 × CR123	
Chemistry	Li-MnO_2	
Materials	Battery case: Polyamide (PA) Cells: Lithium metal Manganese dioxide 1,2-Dimethoxyethane (DME) Propylene carbonate	
Usable extinguishing agent	Alcohol-resistant foam or dry sand	
Shelf life	10 years (when stored disconnected from the PAPR unit)	
Storage conditions Operating conditions	–10 °C to +55 °C, 20–95 % relative humidity 0 °C to +60 °C, 20–95 % relative humidity	

** with new ABEK2P3 filters, 160 l/min and CA-2 hood*

Compatible powered air purifying respirators

CleanAIR® Chemical 2F Plus, Tactical
CleanAIR® MedicAER

Transport information

Lithium batteries are subject to international transport regulations. Their classification determines the required packaging, labelling, and whether a Dangerous Goods Declaration is required.
Please refer to the following reference information for the specific transport mode:

Proper shipping name	Lithium metal batteries packed with equipment	Lithium metal batteries
UN code	UN 3091	UN 3090
Road	Class 9, code M4, Packing instruction P903 ADR	
Sea	Class 9, code M4, Packing instruction P903 IMDG	
Air	Class 9, Packing instruction 969 Section I, IATA DGR	Class 9, Packing instruction 968, Section IA, IATA DGR

Handling

- **Do not recharge – may cause fire or explosion.**
- Do not open, dismantle or modify the battery.
- Do not attempt to access internal components.
- Do not mechanically damage the housing (crushing, puncturing, drilling or cutting).
- Do not expose the battery to fire or temperatures exceeding the specified limits.
- Do not use the battery if the housing is cracked, deformed or otherwise damaged.
- Protect electrical contacts from contamination and conductive materials.
- Do not short-circuit the terminals.
- Do not use the battery in equipment other than the specified PAPR unit.
- Remove the battery from service if overheating, unusual odor, discoloration or abnormal performance occurs.

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End-of-Life and Recycling

- **Waste batteries must not be disposed of as unsorted municipal waste.**
- **Waste batteries shall be delivered to designated separate collection points established by producers or producer responsibility organizations, or to collection systems operating in accordance with applicable national legislation.**
- By ensuring proper separate collection, end-users contribute to the safe treatment and recycling of waste batteries.
- Used or damaged batteries shall be handled with care.
- To prevent short-circuit, battery terminals should be insulated before disposal.
- Do not crush, incinerate or expose waste batteries to water or fire.
- Batteries containing lithium may present a fire risk if improperly handled.
- Batteries contain substances which may have adverse effects on the environment or human health if released due to improper disposal.
- Proper collection and recycling allow recovery of valuable materials and reduce environmental impact.

The EU Declaration of Conformity is available at: www.clean-air.cz/doc