

TECHNICAL DATASHEET



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Standard and Heavy Duty Li-ion battery for PAPR Chemical 2F

Rechargeable battery



Standard Li-ion battery
for Chemical 2F



Heavy Duty Li-ion battery
for Chemical 2F

Description

Rechargeable Li-ion battery.

Application

To be used exclusively with
CleanAIR® Chemical 2F Plus/EX/Tactical.

* the picture is illustrational only and may vary depending on additional equipment

DA-118_-_510010+510020_-_2F_STANDARD+HD_battery_EN



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Standard and Heavy Duty Li-ion battery for PAPR Chemical 2F

Rechargeable battery



Technical specification	Standard battery	Heavy Duty battery
Product code	510010	510020
Weight	350 g	450 g
Voltage / Capacity	14.52 V / 3.2 Ah (46.46 Wh)	14.40 V / 4.9 Ah (70.56 Wh)
Charging time	approx. 3.5 hours	approx. 5.5 hours
Battery lifespan	up to 500 charging cycles	up to 500 charging cycles
Dimensions	112 mm × 50 mm × 85 mm	134 mm × 51 mm × 101 mm
Materials	Battery case: Polyamide (PA) Cells: Lithium-ion	Battery case: Polyamide (PA) Cells: Lithium-ion
Cells	4 × INR18650MH1	4 × INR21700-50E
Shelf life	5 years*	5 years*
Storage conditions	-10 °C to +55 °C, 20–95% RH	-10 °C to +55 °C, 20–95 % RH
Operating conditions	0 °C to +60 °C, 20–95 % RH	0 °C to +60 °C, 20–95 % RH
Charging conditions	0 °C to +40 °C, dry indoor environment	0 °C to +40 °C, dry indoor environment

* Batteries may self-discharge during storage. To maintain battery condition, it is recommended to charge the battery for at least 1 hour every 3 months. For long-term storage, the optimal battery charge level is between 50 % and 70 % of its full capacity. After extended storage, perform three full charging cycles to restore the battery to its maximum capacity.

Product combination / settings					Operation time*
PAPR	Battery	Filter type	Headtop type	Air flow	
Chemical 2F	Standard 14.52 V / 3.2 Ah	P	Light hood CA-10	160 lpm	9 h 30 min
Chemical 2F	Heavy Duty 14.40 V / 4.9 Ah	P	Light hood CA-10	160 lpm	14 h
Chemical 2F	Standard 14.52 V / 3.2 Ah	A2B2E2K2P	Light hood CA-10	160 lpm	5 h
Chemical 2F	Heavy Duty 14.40 V / 4.9 Ah	A2B2E2K2P	Light hood CA-10	160 lpm	8 h
Chemical 2F	Standard 14.52 V / 3.2 Ah	A2B2E2K2P	GX-02 Shigematsu	120 lpm	6 h 30 min
Chemical 2F	Heavy Duty 14.40 V / 4.9 Ah	A2B2E2K2P	GX-02 Shigematsu	120 lpm	10 h

* with new filters and fully charged battery

Compatible powered air purifying respirators

CleanAIR® Chemical 2F Plus

CleanAIR® Chemical 2F Ex

CleanAIR® Chemical 2F Tactical

Safety Certification

The Standard and Heavy Duty batteries comply with the safety requirements of the following standards:

UN 38.3 – transport safety test for lithium-ion cells and batteries

IEC 62133-2 – safety standard for rechargeable lithium batteries used in portable devices

Disclaimer Notice

All the information contained herein is believed to be accurate and is subject to change without notice. Users should independently evaluate the suitability of each product for their own applications. CleanAIR® products are not designed for, and may not be used in, all applications.