



Filter Testing

A2B2E2K2 P3 (code: M40012S)

Intended use:

Respiratory protection against gases vapors and particles in conjunction with a specified face piece. Scope of protection as indicated by product documentation, technical standards and installed application rules

Relevant standard:

EN 141, EN 143

Certification:

EC type approval test certificate, granted by accredited and notified test institute FORCE Institute - FORCE-Dantest CERT - Park Alle 345 DK-2605 Brøndby

Connection to face piece:

Standard thread connection RA (Rd 40mmx1/7")

Filter housing: aluminum, coated inside

Sorbents: activated and impregnated carbon

Particle filter: micro glass fibers, cellulose-fibers

Plugs: polyethylene

Shelf life: 5 years

Outer diameter 108.5 mm

Height (incl thread and plugs): 75 mm Weight: approx 370 g

Filter Testing

Gas filtration capacity test conditions (EN141) 30 L/min, 70% rel humidity, 20°C
 Concentration 5060±100ml/m³, 20±1°C

Filter	Gas	Breakthrough at 10±2ml/m ³
18	C6H12	57 min
20		51 min
29		54 min
average		54 min

Requirement A2-P3 ³ 35

Gas filtration capacity test conditions (EN141) 30 L/min, 70% rel humidity, 20°C
 Concentration 5000±250ml/m³, 20±1°C

Filter	Gas	Breakthrough at 10±2ml/m ³
10	CL ₂	43 min
17		51 min
23		50 min
average		48 min

Requirement B2-P3 ³ 20

Gas filtration capacity test conditions (EN141) 30 L/min, 70% rel humidity, 20°C
 Concentration 5060±250ml/m³, 20±10°C

Filter	Gas	Breakthrough at 10±2ml/m ³
5	H ₂ S	138 min
19		136 min
21		142 min
average		138 min

Requirement B2-P3 ³ 35

Filter Testing

Gas filtration capacity test conditions (EN141) 30 L/min, 70% rel humidity, 20°C
 Concentration 5000±250ml/m³, 20±10°C

Filter	Gas	Breakthrough at 10±2ml/m ³
8	HCN	42 min
12		42 min
16		44 min
average		43 min

Requirement B2-P3 ³ 25

Gas filtration capacity test conditions (EN141) 30 L/min, 70% rel humidity, 20°C
 Concentration 5060±250ml/m³, 20±10°C

Filter	Gas	Breakthrough at 10±2ml/m ³
32	SO ₂	27 min
1		28 min
24		28 min
average		28 min

Requirement E2-P3 ³ 20

Gas filtration capacity test conditions (EN141) 30 L/min, 70% rel humidity, 20°C
 Concentration 5000±2500ml/m³, 20±10°C

Filter	Gas	Breakthrough at 10±2ml/m ³
3	NH ₃	55 min
4		54 min
13		59 min
average		56 min

Requirement K2-P3 ³ 35

Filter Testing

Breathing resistance (mbar)

Sample	30 L/m	95 L/m
1	1.76	6.45
2	1.61	5.80
3	1.68	6.41
4	1.63	5.82
5	1.63	5.85
average	1.66	6.06

Breathing resistance at, constant flow 2,6mbar (max as per EN 141), constant flow 9,8 mbar (max as per EN 141)

Test of filter on a mask SGE 150 and in accordance with EN 136

At a ventilation rate of 25 cycles/min and tidal volume of 2 Liters

Inhale cracking point 8.9 mbar

Exhale cracking point 1.9 mbar

