

MicroGard™ II

Specifications



Filtering properties

Bacterial	99.999% (based on Nelson Lab test ¹)
Viral	99.999% (based on Nelson Lab test ¹)

Filtering material

Material name: Microstat M190

Filtering layer density (filtering material and three layers scrim)	(258 ± 11%) g/m ²
Filtering layer thickness	3.0 ± 0.5 mm
Filtering layer mass	1.3 ± 0.2 g
Filtering layer diameter (effective)	80 ± 0.5 mm
Filtering layer surface (effective)	(50.2 ± 1.2%) cm ²

Filter mass: housing and filter material

MicroGard IIB	MicroGard IIC
(38 ± 10%) g	(42 ± 10%) g

Filter dimensions

Filter volume (excluding adapters and housing)	(55 ± 3%) mL
Connection inner diameter system side	(30 ± 2%) mm tapered port
Connection outer diameter patient side (MicroGard IIC only)	(30 ± 2%) mm tapered port

Filter ambient conditions

Temperature	0–42°C 32–108°F
Relative humidity (noncondensing)	0–100%

Materials

Materials and additives compliant with:	REACH regulations
Housing (with mouthpiece)	Styrolution PS 454N
Filter does not contain:	Bis(2-ethylhexyl) phthalate (DEHP) Bisphenol A (BPA) Polyvinyl chloride (PVC)



Filter resistance at various flows: MicroGard IIB (± 4%)

L/s	L/min	kPa.s/l	cmH ₂ O
0.50	30	0.034	0.35
1.00	60	0.036	0.37
1.67	100	0.039	0.39
5.00	300	0.051	0.52
8.33	500	0.063	0.64
10.0	600	0.069	0.71
11.7	700	0.075	0.77
14.0	840	0.084	0.86
14.0	840	ATS² max: 0.150	ATS² max: 1.53

Filter resistance at various flows: MicroGard IIC (± 4%)


L/s	L/min	kPa.s/l	cmH ₂ O
0.50	30	0.034	0.34
1.00	60	0.035	0.36
1.67	100	0.037	0.38
5.00	300	0.046	0.47
8.33	500	0.054	0.56
10.0	600	0.059	0.60
11.7	700	0.063	0.65
14.0	840	0.069	0.71
14.0	840	ATS² max: 0.150	ATS² max: 1.53

REFERENCES

1. Nelson Report 10003754 - Viral Filtration Efficiency Test (VFE) at an Increased Challenge level GLP Report Nelson Report 10003754 - Bacterial Filtration Efficiency Test (BFE) at an Increased Challenge level GLP Report.
2. ATS Standardization of Spirometry [ATS 2005, p. 332]

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