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POWER3™ SURGICAL MASK TESTING DATA SHEET

ITEM	DESCRIPTION	TEST METHODS & RESULTS
1	Fluid Resistance	Test Method: Chamber Conditions ASTM F1862 160mmHg Results: Passed Resistance to Blood Penetration Test. >98% (Meets requirement for ASTM Level 3 Surgical Mask designation)
2	Bacterial Filtration Efficiency (BFE)	Test Method: ASTM F2100 Results: >98% (Meets requirement for ASTM Level 3 Surgical Mask designation)
3	Particle Filtration Efficiency (PFE)	Test Method: ASTM F2299 Results: >99.63% (Meets requirement for ASTM Level 3 Surgical Mask designation)
4	Air Flow Resistance (Delta p)	Test Method: ASTM F2100 for masks with 4 layers Results: <6mm (Meets requirement for ASTM Level 3 Surgical Mask designation)
5	Biocompatibility	Test Method: ISO 10993-1, 10993-5, 10993-10 Results: Non-cytotoxic, non-irritating and non-sensitizing; safe to wear for a long period of time
6	Sensitization	Test Method: ISO 10993, Test for Irritation & Delayed Type Hypersensitivity Results: No significant proliferation of lymphocytes
7	Antibacterial	Test Method: ISO 20743 Test Bacteria: Staphylococcus aureus Results: 99.98% deactivation
8	Antiviral (Biocidal)	Test Method: ISO 18184 Test Virus: Influenza and Feline Calicivirus Results: 99.999% deactivation (Still 99.49% deactivation after 30 washes, 0.004% reduction after 8 years in storage)



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9	Flammability	Test Method: 16 CFR Part 1610 Results: Class I, non-flammable (Meets requirement for ASTM Level 3 Surgical Mask designation)
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All testing used in the research and development of the POWER3 mask and/or its raw materials was conducted by a duly accredited third-party testing laboratory utilizing ASTM international standards.

POWER3 currently offers the following pre-FDA approved masks:

ASTM LEVEL 3: 4-ply Surgical Mask with Biocidal and Melt-blown Middle Layers Fluid resistance: >98% at 160 mmHg (The minimum pressure in mm Hg for passing result for ASTM Level 3 Surgical Mask designation).

BFE >98%

PFE >98%

Recommended use: Ideal for procedures where **moderate to heavy** amounts of fluid, spray and/or aerosols are produced.

Notes:

1. Level 3 Surgical Mask is also available in 3-ply without Biocidal Middle Layer.
2. POWER3 also offers 3-ply biocidal Smart masks for general use (equivalent to ASTM Level 1 Surgical Mask).

FDA Registered: 10077763

FDA Pre-EUA Reference – PEUA210121