

**FILTRATION EFFICIENCY REPORT SUMMARY**

**JOB NUMBER: 3653-001**

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Method: MODIFIED NIOSH 42 CFR Part 84 (30 L/min)  
No. of tests: 2  
Report date: 2020-06-19

**RESULTS SUMMARY**

SAMPLE #	DESCRIPTION	*FE <sub>mass</sub> (%)
1 <sup>†</sup>	Air Guard Clear – attached to face piece	99.7
2	Hydro Guard Mini – filter only	99.9

**NOTES:** \*Filtration efficiency calculated as a function of particle mass

<sup>†</sup>Pressure drop: -21.3 mm H<sub>2</sub>O

**DESCRIPTION OF PROCEDURE**

Masks were subjected to a modified NIOSH 42 CFR Part 84 test regimen. In brief, filtration efficiency was measured under conditions of unidirectional airflow at 30 L/min through masks fitted to a test mannequin and exposed in an atmosphere of salt aerosol of median diameter ~80 nm. Particles were measured by size category using a TSI SMPS model 3034 and expressed as counts or mass (standard protocol assesses filtration efficiency by mass).

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