

A simple and universal non-woven product line for all your RPE needs

NanoWave® ESA Technical Data Guide



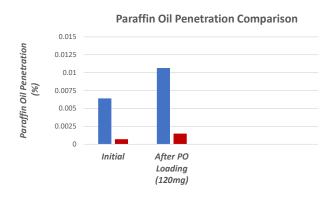


2 H&V NanoWave® | ESA

NanoWave® ESA is the latest innovation from Hollingsworth & Vose: a 3-D composite that is all synthetic and designed specifically for particulate respiratory protection. Smaller filter designs, higher efficiencies, using zero-added PFAS chemistries are the 3 pillars of future RPE products. NanoWave® ESA performance answers such needs.

EN143 P3 Performance¹

Penetration, Resistance, and Filter Life



EN143 P3 Filter:

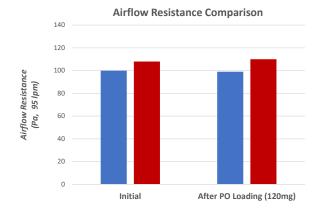
Flow: 95 LPM

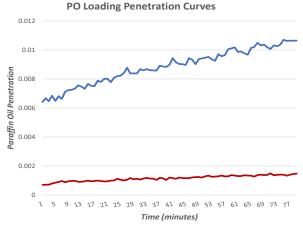
■ RPE Producers #1 Competitor ■ RPE Producers using NanoWave® ESA

Filter area: ~300 cm² total

Testing agent: Paraffin Oil (PO)

PO loading: 120mg







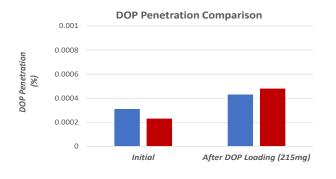
EN143 P3 Performance

- NanoWave® ESA enables statistically identical resistance compared to the RPE market leader of P3 pancakes.
- Other NanoWave® ESA materials are available to enable smaller filter sizes.*
- RPE producers can offer significantly better protection for all-day wear when compared to the RPE market leader of P3 pancakes.
- * vs. conventional designs.
- ¹ Other efficiencies available upon request

3 H&V NanoWave® | ESA

NIOSH 42 CFR part 84 P100 Performance¹

Penetration, Resistance, and Filter Life



NIOSH P100 Pancake Filter:

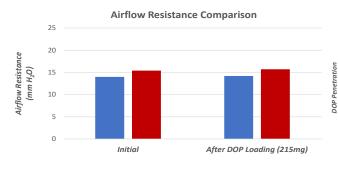
- RPE Producers #1 Competitor
- RPE Producers using NanoWave® ESA

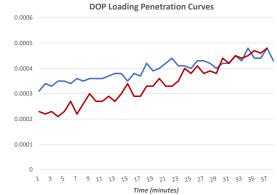


Filter area: ~300 cm² total

Testing agent: Dioctyl Phthalate (DOP)

PO loading: 215mg







NIOSH 42 CFR part 84 P100 Performance¹

- Our NanoWave® ESA product line contains zero added PFAS, P100 efficiency included!
- NanoWave® ESA enables statistically identical resistance compared to the RPE market leader of P100 pancakes.
- Other NanoWave® ESA materials are available to enable smaller filter sizes.
- RPE producers can offer the same or better performance for all-day wear when compared to their No. 1 competitor.

¹ Other efficiencies available upon request