



# Oil Aerosol Reagents



ATI offers the highest quality, industry-standard oil reagents for use in conjunction with oil aerosol generators. Our reagents are used for in situ leakage testing and production quality control efficiency testing of high-efficiency air filters. ATI oil aerosol reagent products are suitable for government, nuclear, and FDA-regulated testing applications.



## OIL AEROSOL REAGENTS

### PAO-4 Reagent

Four-centistoke PAO (Chemical Abstract System ID 6864 9-12-7) reagents offer a U.S. Food & Drug Administration-approved alternative to DOP in FDA-regulated filter leakage testing applications. PAO is approved by the U.S. Army Surgeon General and is used by the United States military as a substitute for DOP in their filter and mask testing processes.

PRODUCT SPECIFICATIONS		
	PAO-4	Ondina X 420 (EMEA)
CAS #	68037-01-4 or 68649-12-7	1262661-88-0
Boiling Point	> 316°C (601 °F)	> 280°C (536 °F)
Relative Density	0.819 @ 15.5°C (60°F)	0.816 @ 15°C (59°F)
Vapor Pressure	< 0.013 kPa @ 20°C	< 0.5 Pa @ 20°C
Vapor Density	N/A	>1
Water Solubility	Insoluble	Insoluble
Appearance	Colorless liquid	Colorless liquid
Odor	N/A	Slight hydrocarbon
Melting Point / Freezing Point	< -20°C (-4°F)	N/A
pH	N/A	N/A
Flash Point	222°C (432°F)	225°C (437°F)
Method Used	Cleveland Open Cup	Cleveland Open Cup
Upper/Lower Flammability Limits	UEL: N/A; LEL: N/A	UEL: Typical 10% (V); LEL: Typical 1% (V)
Auto-Ignition Temp	343°C (649°F)	> 320°C (608°F)
Available Sizes*	1-gallon and 5-gallon containers	2-liter and 20-liter containers

\* Larger volumes may be available upon request.

### Ondina X 420 (EMEA Only)

Ondina X 420 is the latest version of Ondina, manufactured by Shell. Its CAS (Chemical Abstract System) Number is 1262661-88-0. The earlier Ondina EL version was listed in ISO 14644-3:2005 as one of the typical substances used to generate test aerosols, and X 420 continues to be widely used for in-situ testing of HEPA filters.



## Service & Training @ ATI

- OEM calibration, maintenance & repair
- ATI Certified Operational, Service & Maintenance Training (ask for details)
- Quality testing for HEPA filters & protective masks available at our ISO-9001 registered, NQA-1 & DOE audited Test Laboratory



Protecting People, Products & Critical Infrastructure

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