



Combustion By-Products

Purpose of Test

This test is designed for analysis of fire residues for presence of analytes of interest (char, black carbon/soot and ash). The results of this test offer the client valuable information related to the extent of damage produced by a fire at a location (residential, industrial or wildfires). These results can be used for cleaning assessment and/or insurance claims.

Sampling

Surface Sampling:

- Alcohol prep wipes (recommended surfaces: TV's computer displays, plastic surfaces, furniture, windows, mirrors, internal surfaces of refrigerators; avoid painted surfaces)
- Microvacuum: 25 mm 0.45 micron or 0.8 microns pore size MCE cassettes (recommended surfaces: main living areas, from top of interior door frame, window frame, from corners of floors, door tracks, attic areas)
- Tape lifts (recommended surfaces- same as for alcohol prep wipes)*

Air sampling:

- PVC pre-weighed cassettes (for NIOSH 5000 only)
- Zefon CSI cassettes*
- Zefon Air-o-cells*
- 25 mm 0.45 micron pore size MCE cassettes¹; Flow rate 0.5-16 L/min, Min volume 400

Combustion By-Products	Equipment/Purpose	1 Day	2 Days	3 Days	4 Days	1 Week	2 Weeks
NIOSH 5000 (air)	Gravimetric analysis only for Carbon Black	\$244	\$184	\$145	\$119	\$100	\$66
NIOSH 5000 with Confirmation (air)	Includes TEM Confirmation	Call	\$1,041	\$832	\$682	\$568	\$378
Combustion By-Products- Level 1	Char + Soot (presumptive) + Ash	Call	\$435	\$347	\$284	\$237	\$158
Combustion By-Products- Level 2	Char + Soot (confirmation) + Ash	Call	\$1,041	\$832	\$682	\$568	\$378
Combustion By-Products- Level 3	Level 2 + Common Particle ID	Call	\$1,110	\$888	\$726	\$605	\$405
Combustion By-Products- Level 4	Level 3 + SEM/EDX + pH (corrosivity)	Call	\$1,275	\$1,020	\$834	\$696	\$464
Screening (P/A only)	Char + Soot (presumptive) + Ash	\$244	\$184	\$145	\$119	\$100	\$66

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