

# Laboratory Fume Hood Standards

Laboratory fume hoods are used to prevent harmful exposure to hazardous substances. Hazardous substances are explosive, flammable, poisonous, an irritant, or otherwise harmful and likely to cause injury or illness. All research experiments involving chemicals should always be performed in a laboratory fume hood.

Hood Face Velocity Measurement Procedure:

1. Open the hood sash 18 inches.
2. Take three diagonal reading across the face of the open hood (top, middle and bottom).
3. Take the average of the three readings. The acceptable velocity range is 80 to 125 Linear Feet per Minute (LFPM). A fume hood performing outside this range must be evaluated.
4. If the fume hood is used for research purposes, initiate the evaluation of the hood by contacting the department who owns the hood, which must approve funding if hood repairs are necessary.
5. If the fume hood is used for educational purposes, initiate the evaluation of the hood by directly contacting Facilities Management, which repair educational fume hoods.
6. If a department prefers a hood face velocity greater than 125 LFPM and the hood has passed a smoke test at this high face velocity, the hood may be used. The smoke test demonstrates if turbulence in the hood is great enough to propel air contaminants at the face of the open hood into the laboratory.
7. Each fume hood is required to be tested on an annual basis.

# Fume Hood Face Velocity Report

Sampling Locations on Hood Face

1		
	2	
		3

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	

Building	
Room	
Hood #	
Locations	Feet/min
1	
2	
3	
Avg	