

Conveying Velocities of Various Industrial Commercial Contaminants

Contaminant Type	Examples	Design Velocity	Associate MPH
Mists	Coolants and cutting oils	2000 FPM	22 MPH
Vapors, Gases, Smoke	Vaporized solvents, oil smoke, solder smoke	1000 - 1500 FPM	11 - 17 MPH
Fumes	Electric welding, laser plasma, torch cutting	1500 - 2500 FPM	17 - 28 MPH
Very fine light dust	"Flour", "Baby Powder" dusts generated by friction abrasion of two materials using a fine grit abrasion surface; composite, plastic, fiberglass, metal, or wood sanding	2500 - 3300 FPM	28 - 38 MPH
Average industrial dusts	Same application as above plus foundry sand shakeout, except particle size similar to coarse beach sand	2800 - 3500 FPM	32 - 40 MPH
Heavy Dusts	Chip making processes such as lathes, mills, wood planers & joiners, snag grinding castings, tungsten carbide grinding or pressing	3000 - 4500 FPM	34 - 51 MPH