ISRP 2000 abstract

Presenter/author	Title	Abstract
Yamada , Hiroshi	Filtering efficiency	We have studied filtering efficiency of filter media designed for dust respirators. When we tested the filter media against DOP particle loading, we observed three
Managing	of	types of phenomenon on the efficiency: (1) decreasing rapidly, (2) keeping almost
director,	particulate	constant value and (3) increasing rapidly at the initial stage then approaching a
Shigematsu	filters	constant value. Electrostatic filters usually show the first phenomenon. Mechanical
Works Co., Ltd,	against	filters show either of the last two phenomena. Almost all mechanical filters show the
Iwatsuki, Japan	DOP	second phenomenon. A mechanical filter treated with a water and oil repellent
	particles	chemical shows the last phenomenon. These phenomena of the efficiency are
		thought to be related to the surface state. We will discuss on the state of DOP
		particles collected by the filter fibers and the effect on the efficiency.