

高科技廠房無塵室煙控模擬之研究—以半導體廠為例

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摘要

Because "the green silicon island" the policy causes the government to provide the fine environment, therefore the merchant investment massive funds and high educate the capable person to add, will cause the high tech factory rapid development, this article to aim at the semiconductor 12 inches crystals round factories, will do conducts the research for the case.

This research carries on the strengthened hypothesized area by 12 inches crystals round factories to delimit the discussion, by Shengk' ai Zhang proposed " Discussion of Calamity Control Mode in Seiconductor Factory ", has discusses 12 inches crystals round factories because the mechanical track can destroy originally smoke barrier, therefore the use pressurizes the air wall (hypothesized area delimits) the design, the substitution smoke barrier, its principle is when the fire, closure fire disaster area air conditioning, but the non- fire disaster area air conditioning continues to blow of, may achieve strengthens differential pressures of the two regions, then forms the hypothesized area to delimit, but the original area will delimit creates the pollution proliferation to the neighbouring area, Therefore after this research discussion reset the hypothesized area delimits, whether can maintain the hypothesized area to delimit is not destroyed.

Using fire dynamic simulation software FDS, when the simulation fire occurs, in the start discharges fume the system, examines influence which the FFU wind speed allocated proportion, the turnover amount of wind control and the throttle valve altitude, expected can pollute limits in an area, the maintenance hypothesized area delimits is not destroyed.

關鍵字：12 inches crystals round factories、hypothesized area delimits、FDS