

Shroud nozzle distributor가  
metal grade-Si

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(dhlee@skku.edu\*)

(TDH)	shroud nozzle distributor	perforated plate distributor	transport disengaging height
		0.3 m, 2.4 m	
	bed material MG-Si		$\rho = 2,330 \text{ kg/m}^3$ , $\rho_{\text{bulk}} = 1,180$
kg/m <sup>3</sup>		perforated distributor 2 nozzle distributor	
0.002		$U_0 = 0.15 \text{ m/s}$	Perforated plate distributor bed height
0.8 m	0.4 m 0.1 m	bed 0.2 m	solid
holdup		solid volume fraction	TDH가 bed height
		shroud nozzle distributor	TDH