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0.21m 가 1.8m
 glass beads polymer beads . tap water
 , ambient air . glass beads (
 : 385 μ m : 2,500kg/m³) polymer beads (: 3.3mm : 1,280kg/m³) . Glass beads
 polymer beads 2:1, 1.5:1, 1:1, 1:1.5, 1:2 .
 upper beds lower beds pressure gradient . mixing
 segregation . Size가 가 가
 liquid velocity 가 , gas velocity가 가 perfect mixing
 liquid velocity .