

Table 1 conditions of tests

	Geometry 1			Geometry 2		
	Matrx i	Block	Wall rock	Matrx i	Block	Wall rock
Cohesion (MPa)	10	20	20	10	20	20
Visocsity (Pa•s)	$10^{17}, 10^{18}, 10^{19}$	10^{20}	10^{21}	$10^{17}, 10^{18}, 10^{19}$	10^{20}	10^{21}
Poisson's ratio			0.35			
Rigidity (Pa)			36			
Velocity (m/s)			0.0001-1			