Table 3.

iSALE target input parameters for the Boeing centrifuge and the EPIC simulations.

Experiment Description	**Boeing centrifuge**		**EPIC**	
	Quartz sand	**Chromite sand**	**Beach sand**	**Iron grit**
Equation of state	ANEOS quartzite	ANEOS iron	ANEOS quartzite	ANEOS iron
Strength model	Drucker-Prager	Drucker-Prager	Drucker-Prager	Drucker-Prager
Poisson ratio, ν	0.30	0.30	0.30	0.30
Strength parameters				
Damage strength at zero pressure (kPa), Y_0	0	0	0	0
Strength at infinite pressure (GPa), Y_{inf}	1.0	10	0.1	10
Internal friction coefficient, f	0.63	1.00	0.50	0.65
Porosity parameters (ε-α)				
Initial porosity, ϕ	44%	20%	40%	44%
Initial distension, α_0	1.77	1.25	1.68	1.80
Distension at transition to power-law, α_x	1.29[b]	1.15[c]	1.29[b]	1.15[c]
Elastic volumetric strain threshold, ε_{e0}	-1.5×10^{-2}	-1.0×10^{-4}	-1.5×10^{-2}	-1.0×10^{-4}
Exponential compaction rate, κ	0.99	0.98	0.99	0.95

[a]Melosh, 2007; [b]Wunnemann et al., 2016; [c]Collins et al., 2011.