













E08 test conditions								
Parameters		C1	C2	C3	C4			
Melt								
Material		Sn+Bi (eutectic)						
Melting point		139						
Melt temperature	°C	389	185	178	245			
Melt superheat		250	46	39	106			
Arrest of melt propagation/time before solidification	s	2.4	4.2	3.24	2.0			
Depth of melt penetration	mm	180	220	155	135			
Debris bed								
Material		Alumina						
Particle size	mm	6x6 cyl						
Compartment dimensions	mm	70x20						
Porosity		0.32						
Contact angle (wettable if <90)	deg	>90						
Initial debris bed temperature	°C	67;78	84;124;125	79;108	62;76;80			
Debris bed temperature difference from melt solidification temperature	°C	-72;-61	-55;-15;-14	-60;-31	-77;-63;-59			



E09 test conditions								
Parameters		C1	C2	C3	C4			
Melt								
Material		Sn+Bi (eutectic)						
Melting point		139						
Melt temperature	°C	220	172	204	211			
Melt superheat		81	33	65	72			
Velocity of melt front propagation (calculated from video)	m/s	0.113	0.147	0.0773	0.156			
Average mass flow rate (estimated)	kg/s	0.506	0.757	0.368	0.895			
Debris bed								
Material		Alumina	Glass					
Particle size	mm	6x6 cyl		3x3 cyl	Ø6 sph			
Compartment dimensions	mm	70x20						
Contact angle (wettable if <90)	deg	>> 90 >> 90		90	~ 90			
Debris temperature	°C	151;171;131	182;190;166	189;189;165	152;150;147			
Debris bed temperature difference from melt solidification point	°C	12;32;-8	43;51;27	50;50;26	13;11;8			
Porosity		0.39	0.406	0.349	0.456			
Debris mass before test	kg	0.8342	1.854	2.0316	0.5506			
Debris mass after test	kg	0.8638	1.9532	2.0992	0.6782			
Melt mass retained	g	29.6	99.2	67.6	127.6			































































