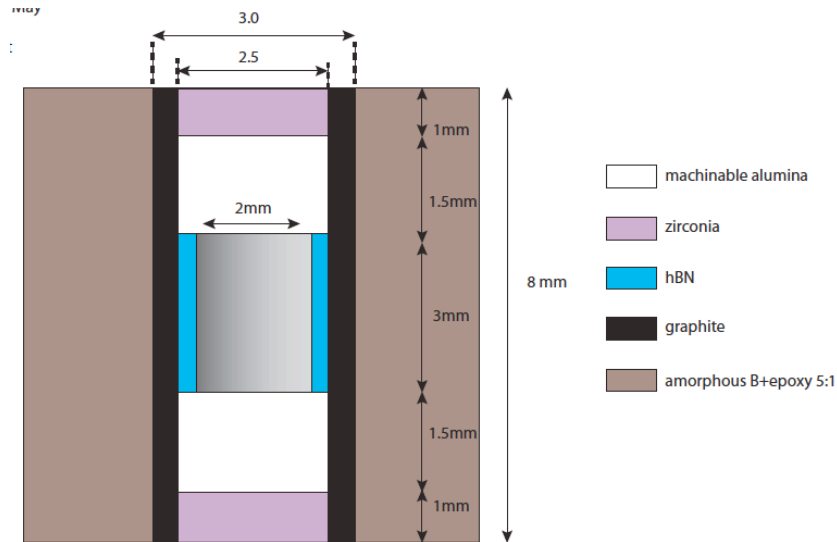


Fig. 1: Experimental cell design



Experiments:

The successful experiments are listed below:

Run	Load (bar)	Power (W)	Composition (volume %)
Serp_06	30	78	atg5:Ol95
Serp_07	30	80	atg10:Ol90
serp_08	30	82	atg20:Ol80
serp_09	30	75	atg20:Ol80
serp_10	30	77	atg50:Ol50

The sample space was divided in two: a half height was San Carlos olivine and the other half was the sample. The samples were all pressurized to the same load, heated around 400°C and deformed using a speed similar to what was used in ES-82.

Fig. 2 shows strain results for runs Serp_06 and Serp_10. While a 5% antigorite – 95% SC olivine synthetic peridotite deforms at the same rate approximately as pure SC olivine, the 50% antigorite – 50% SC olivine deforms much faster than pure SC olivine and than the 5:95 composition.

Fig. 2 –strain results for two successful runs.

