**Low density ceramic foams from alumina-sucrose using magnesium nitrate as a blowing and setting agent**

Sujith Vijayan, Praveen Wilson and K. Prabhakaran\*

Department of Chemistry, Indian Institute of Space Science and Technology, Thiruvananthapuram- 695 022, India



**Fig. S1** Photograph of a large alumina foam body fabricated by thermo-foaming of alumina powder dispersions in molten sucrose using magnesium nitrate blowing agent

\*Corresponding author. Tel.: +91 4712568535; fax: +91 471 2568541. *E-mail addresses:* kp2952002@gmail.com (K. Prabhakaran).



**Fig.S2** Infrared spectrum of sucrose polymer prepared (a) without and (b) with magnesium nitrate blowing agent



**Fig. S3** Variation of average grain size with magnesium nitrate concentration