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

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**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

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**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