

Supporting Information for “The temperature of the Icelandic mantle from aluminum-in-olivine thermometry”

S. Matthews,¹ O. Shorttle,^{1,2} and J. MacLennan,¹

Contents of this file

Additional Supporting Information (Files uploaded separately)

1. Captions for Dataset S1

Introduction

Corresponding author: S. Matthews, Department of Earth Sciences, University of Cambridge, Downing Street, Cambridge, CB2 3EQ, UK. (sm905@cam.ac.uk)

¹Department of Earth Sciences,
University of Cambridge, Downing Street,
Cambridge, CB2 3EQ, UK

²Department of Geological and Planetary
Sciences, California Institute of Technology
Pasadena, California, USA.

Dataset S1 contains the averaged chemical data for each olivine and spinel crystal analysed, the analytical conditions, representative uncertainties and detection limits and Al-in-olivine thermometry results.

- The data file is a .xls file
- The data were collected between October 2014 and November 2014 using electron probe microanalysis at the University of Cambridge.

Data Set S1. Average chemical data and Al-in-olivine results for each crystal analysed. Electron probe analytical conditions are included with representative detection limits. Estimates of analytical uncertainty are provided, based on counting statistics and scatter of observations about the mean in unzoned crystals.