The Data in this folder are from this publication:

2012 Branlund J.M., Hofmeister A.M. Heat transfer in plagioclase feldspars. *Am. Mineral. 97,* 1145-1154.

**See Crystals Database File in metadata folder for complete list of Crystal samples/compositions and references.**

**Data collected at Washington University, St. Louis, MO**

**Supported by NSF Funding – EAR0911428, EAR0711020**

Files

Thermal Diffusivity of Plagioclase samples – Thermal Diffusivity vs. Temperature for plagioclase feldspars: albite, FSU, FON, FLN, FBM, FLL, FMA (Figure 2).

Thermal Conductivity of Plagioclase samples

Raw Probe Data

|  |  |  |
| --- | --- | --- |
| **Sample** | **Sample Name in file** | **Filename** |
| Albite | Un 4 Albite | Hofmeister Feldspars 8-4-2011 |
| FSU | Un 2 Sunstone | sunstone\_probe2 |
| FON | Un 3 LA1-1 Smith Oligoclase R2898 | Hofmeister silicates 7-22-10 |
| FLN | Un 11 LAB1-3 Nain | Hofmeister silicates 7-22-10 |
| FLT | Un 10 LAB1-2 Mad lab | Hofmeister silicates 7-22-10 |
| FBM | Un 64/65/66 Mnt 3-6 FBM | Hofmeister 5-5-08 samples |
| FLC | Un 9 LAB1-1 Utah labradorite | Hofmeister silicates 7-22-10 |
| FLL | Un 12 LAB1-4 Lakeview Lab | Hofmeister silicates 7-22-10 |
| FMA | Un 2 Anorthite | Hofmeister Feldspars 8-4-2011 |

Filename: *Thermal Diffusivity for plagioclase samples*

File contains samples (of orientations 001, 010, and perpendicular) that are tabulated with temperature readings (T), diffusivity values (D) and corresponding error magnitudes for each variable.

File: Thermal conductivity for Plagioclase samples

Contains thermal conductivity of samples, which were separately calculated by two separate research teams (Holland and Powell, 1998 & Tribaudino et al. 2010). Conductivity calculations conducted by Tribaudino et al. are designated with a “Yes” in column 3. Values between studies are comparable.

|  |  |
| --- | --- |
| *Sample*  | *Conductivity Values Calculated by Tribaudino et al. 2010?*  |
| k FBM | No |
| k FLN | No |
| k FON | No |
| k Albite | No |
| k FLL | No |
| k FBM (Tribaudino et al. 2010) | Yes |
| k FLN (Tribaudino et al. 2010) | Yes |
| K FON (Tribaudino et al. 2010) | Yes |
| k Albite (Tribaudino et al. 2010) | Yes |
| k FLL (Tribaudino et al. 2010) | Yes |
| k Albite | No |