The Data in this folder are from this publication:

2009 Hofmeister A.M., Whittington A.G., and Pertermann, M. Transport properties of high albite crystals and near-endmember feldspar and pyroxene glasses and melts to high temperature. *Contributions to Mineralogy and Petrology 158*, 381-400.

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

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

**Supported by NSF: EAR-0440119**

Files

Table 1 – Chemical Composition of glass before heating (in wt%)

Table 2 – Water content of glasses (as H20 in ppm by weight)

Table 6 – Thermal diffusivity values

Figure 1 – Infrared Spectra of OH fundamental region – PRN files

|  |  |  |  |
| --- | --- | --- | --- |
| **IR Spectra File Name** | **Sample Thickness (mm)** | **Description** | **Sample ID** |
| ANGLS728 | 0.65 | near med apt, 1500 scans, res = 2 | Anorthite glass from 1250K |
| AN1GL415 | 0.735 | dry, res = 2 | "An" glass flowed 1500K |
| ALBGL419 | 0.853 | apt, 906 scans, res = 2 | Synthetic albite flowed 1600K |
| ALBRM318 | 4.31 | aperture, 966 scans, res = 2, bubbles | Albite remelt |
| ALB319Z | 1.88 | aperture, 973 scans, res = 2 | albite amelia \* orientation |
| ALB319Y | 2.96 | aperture, 1000 scans, res = 2 | albite amelia (010) |
| ALB319X | 1.84 | aperture, 1000 scans, res = 2 | albite amelia cleavage |
| DIOPRM318 | 4.5 | 1000 scans, res = 2, shows OH & Fe abs | diopside remelt |
| DIOGL415 | 0.76 | small apt + screen, 2500 scans, res = 2 | synthetic diopside that flowed |
| SPDLG419 | 0.616 | apt, 875 scans, res = 2 | Spodumene glass after flowing |
| SPDGM222 | 6.3 | apt + screen, 2000 scans, res = 4 | Madagascar remelt |
| LIFLD419 | 0.555 | apt, 830 scans, res = 2 | LiAlSi3O8 glass after flowing |
| LIALG220 | 11.3 | apt + screen, 2500 scans, res = 4 | LiAlSi3O8 glass syn |

Fig 6 A & 6 B – Thermal diffusivities – Excel files

Raw Probe Data

|  |  |
| --- | --- |
| **Sample Type** | **Filename** |
| Unknown 41, anorthite glass | Hofmeister 5-5-08 samples |
| Unknown 23-25, Diopside remelt | Hofmeister 5-5-08 samples |
| Unknown #9, LiFelspar glass | Hofmeister 4-20-07 |
| Unknown #11, Spod M. glass, Madagascar | Hofmeister 4-20-07 |
| Unknown #12 Spod E. glass, Minas Gerais | Hofmeister 4-20-07 |