

43 olivines containing one or multiple crystallized MI were selected

20 olivines selected for the study by Esposito et al. (2016)

23 olivines selected for this study

selection was made over 100 olivines

43 heating experiments

18 experiments performed by Esposito et al. (2016)

25 experiments performed by this study

In 8 experiments MI crystallized microlites or exsolved multiple bubbles.

In 4 experiments, MI decrepitated or leaked.

3 olivines were lost during loading-unloading sample.

After quenching, 3 olivines showed MI with decrepitation halos.

All these MI were not analyzed

20 bubbles in MI analyzed by Raman

20 bubbles in reheated bubble-bearing MI were analyzed by Esposito et al. (2016)

24 glasses of MI analyzed by EMP

14 glasses of bubblebearing MI and 10 glasses of bubblefree MI analyzed by this study

some MI were accidentally destroyed or damaged during polishing

18 glasses of MI analyzed by SIMS

10 glasses of bubblebearing MI and 8 glasses of bubblefree MI were analyzed by this study

6 MI could not be analyzed by SIMS because they were fractured or covered by the indium paste