



Experimental measurements of zircon/melt Nb and Ta partitioning coefficients

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Zircon was grown from Nb and Ta doped hydrous felsic melts in piston-cylinder experiments at 1GPa and 800–1300 [U+2103]. Zircon and glass were present in all run products. Concentrations obtained through in-situ analysis of zircon crystals and melt were used to calculate Nb and Ta partition coefficients $D_{\text{zircon/melt}}$. The changes of partitioning coefficients between zircons and melts with temperature are $\ln D_{\text{Nb zircon/melt}} = -5.2611 + 4250.3(1/T)$ for Nb and $\ln D_{\text{Ta zircon/melt}} = -3.2738 + 2977.3(1/T)$ for Ta.

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