

## Phase relations in CaMgSi<sub>2</sub>O<sub>6</sub>

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High-temperature high-pressure phase equilibrium experiments of CaMgSi<sub>2</sub>O<sub>6</sub> were performed in the pressure range of 17.5 - 21GPa, and the temperature range of 1000 - 1600 C, for 1 - 5 hours, using a 6-8 type multi-anvil apparatus.

It was consequently found that at 18GPa CaMgSi<sub>2</sub>O<sub>6</sub>(Cpx) transformed to MgSp + CaPv + St up to 1400 C, and transformed to MgGar+CaPv above 1500 C. And the both assemblages transformed to MgIl+CaPv at 21GPa.