

# Thermal Control and Optimization of Metathesis Reactions

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By combining a high valence electron density transition metal such as osmium with a small main group element such as boron we are developing ultra-incompressible materials, e.g.  $\text{OsB}_2$ . The bulk modulus (incompressibility) of  $\text{OsB}_2$  rivals that of diamond and in the c-direction  $\text{OsB}_2$  is even more incompressible than diamond (see figure).

