$$\begin{array}{c} 3\operatorname{SiCl_4} + 4\operatorname{Al} \longrightarrow 3\operatorname{Si} + 4\operatorname{AlCl_3} \\ \operatorname{SiCl_4} + 2\operatorname{Zn} \longrightarrow \operatorname{Si} + 2\operatorname{ZnCl_2} \\ 3\operatorname{SiO_2} + 4\operatorname{Al} \longrightarrow 3\operatorname{Si} + 2\operatorname{Al_2O_3} \\ \operatorname{SiO_2}(\mathbf{s}) + 2\operatorname{C}(\mathbf{s}) \longrightarrow \operatorname{Si}(\mathbf{s}) + 2\operatorname{CO}(\mathbf{g}) \\ 2\operatorname{SiC}(\mathbf{s}) + \operatorname{SiO_2}(\mathbf{s}) \longrightarrow 3\operatorname{Si}(\mathbf{s}) + 2\operatorname{CO}(\mathbf{g}) \\ \operatorname{SiCl_4}(\mathbf{l}) + 2\operatorname{H_2}(\mathbf{g}) \longrightarrow \operatorname{Si}(\mathbf{s}) + 4\operatorname{HCl}(\mathbf{g}) \\ \operatorname{SiH_4}(\mathbf{g}) \longrightarrow \operatorname{Si}(\mathbf{s}) + 2\operatorname{H_2}(\mathbf{g}) \\ \operatorname{Si}(\mathbf{s}) + \operatorname{O_2}(\mathbf{g}) \longrightarrow \operatorname{SiO_2}(\mathbf{s}) \end{array}$$