Supporting information to

*Self-propagating reactive Al/Ni nanocomposites for bonding applications*

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Al$_{18}$Ni$_{20}$ - G
Al$_{18}$Ni$_{60}$ - G
Al$_{40}$Ni$_{60}$ - G
Al$_{40}$Ni$_{20}$ - G

Figure 1: XRD graphs of the grinded samples, showing only Al and Ni phases.

Figure 2: Representative SEM image of an Al$_{40}$Ni$_{60}$ sample.
Figure 3: Comparison of XRD measurements of grinded and sonicated Al18Ni20 samples. The sonicated sample shows vast amounts of Al$_2$O$_3$, while the grinded sample shows no oxidized phases.