

Materials List for:

Preparation and Reactivity of Gasless Nanostructured Energetic Materials

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Materials

| Name | Company | Catalog Number | Comments |
|--|-----------------------------|----------------|--|
| Titanium | Alfa Aesar | 42624 | Particle size: -325 mesh Purity, 99.5% |
| Graphite | Alfa Aesar | 46304 | Particle size: 7-11 micron Purity, 99% |
| Nickel | Alfa Aesar | 10256 | Particle size: 3-7 micron Purity, 99.9% |
| Aluminum | Alfa Aesar | 11067 | Particle size: -325 mesh Purity, 99.5% |
| Tantalum | Materion advanced chemicals | T-2017 | Particle size: 325 mesh Purity, 99.9% |
| Carbon lampblack | Fisher scientific | C198-500 | Particle size: 0.1 micron Purity, 99.9% |
| Tungsten wire | Mcmaster Carr | | 0.032" diameter |
| Planetary Ball Mill | Retsch GmbH, Germany | | |
| Uniaxial press | Carver Hydraulic | | |
| Sieve shaker | Gilson performer | | |
| Cylindrical stainless steel press die | Action Machine | | |
| Stainless steel sieves | Mcmaster Carr | Type 304 | |
| High-speed thermal camera (SC6000) | FLIR | | |
| Helios NanoLab 600, Field Emission Scanning Electron Microscope (FESEM) Equipped by Focus Ion Beam (FIB) | FEI | | |
| Cylindrical reactor with a vacuum pomp | Action Machine | | |
| Autoslice and View (S&V) | FEI | | |
| Avizo Fire | FEI | | |