

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		