

Materials List for:

Formation of Thick Dense Yttrium Iron Garnet Films Using Aerosol Deposition

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Materials

Name	Company	Catalog Number	Comments
Ferromagnetic Resonance Spectrometer	www.bruker.com/	9.5 GHz Spectrometer	
Scanning Electron Microscope	www.zeiss.com	LEO Supra 55	
Profilometer	www.kla-tencor.com/	D-120	
Stereo Microscope	www.microscopes.com	Omano Stereo Microscope	Used for inspection directly after removal from deposition chamber
Double-sided Copper Tape	www.2spi.com	05085A-AB	hold-down clips or other adhesives may be used
Nitrile Exam Gloves	www.fishersci.com	19-130-1597D	
2-propanol	www.fishersci.com	A451SK-4	
Acetone	www.fishersci.com	A11-1	
Yttrium Iron Garnet Powder	www.trans-techinc.com/	Call for Product Information	Powder is custom made to order and ground to specifications
Stainless Steel Spoon	www.fishersci.com	14-429E	Used for scooping and transferring powder
Alumina Boats	www.coorstek.com/	65580	
Drying Furnace	www.paragonweb.com	KM14 ceramic furnace	Furnace is connected to air during drying
Powder Sieves	www.advantechmfg.com/	270SS8F	A selection of mesh openings are needed to sieve from large down to target size
Ultra High Purity Nitrogen Gas	www.praxairdirect.com	NI 5.0UH-3K	Used as medium for aerosol.
Air Breathing Quality	www.praxairdirect.com	AI BR-4KN	Used inside furnace during drying
Lab Balance	www.balances.com/	Sartorius ED224S Lab Balance	Used for weighing powder
Sapphire Wafers	www.pmoptics.com/	PWSP-313211	