

Materials List for

Zinc-Sponge Battery Electrodes that Suppress Dendrites

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Materials

Name	Company	Catalog Number	Comments
Corn starch	Argo	Not applicable	This acts as a porogen and viscosity-enhancing agent.
Decane	MilliporeSigma	D901	
Medium viscosity water-soluble carboxymethyl cellulose (CMC) sodium salt	MilliporeSigma	C4888-500G	This CMC acts primarily as a viscosity-enhancing agent.
Overhead stirrer	Caframo Lab Solutions	BDC3030	
Small cylindrical models for Zn sponges	VWR	66014-358	The caps of the vials can be used as molds.
Sodium dodecyl sulfate	MilliporeSigma	436143	
Water-insoluble IonSep CMC 52 preswollen carboxymethyl cellulose resin	BIOpHORETICS	B45019.01	This CMC acts as a porogen and viscosity-enhancing agent.
Zn powder	EverZinc	Custom order	