

Materials List for

Accelerating Rate Calorimetry and Complementary Techniques to Characterize Battery Safety Hazards

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jove.com/video/60342

Materials

Name	Company	Catalog Number	Comments
borescope	Optronics		Rigid, high temperature borescope
Energy Lab Potentiostat	Princeton Applied Research / Ametek		potentiostat capable of collecting open circuit voltage, galvanostic/potentiostatic battery cycling and electrochemical impedance spectroscopy
Extended Volume Accelerating Rate Calorimeter	Thermal Hazard Technologies		Mid-sized system, sample range: components to batteries. Working volume: 0.57 m ³
high temperature tape	non specific		
lithium-ion battery cell	various		rechargeable mixed metal oxide versus graphite lithium-ion cell in 18650 form factor
mat heater	Omega		form factor and size dependent upon battery cell for heat capacity measurements
spherical bomb	Thermal Hazard Technologies		small volume bomb for calibration of ARC