

MICROWAVE PROCESS DEVELOPMENT

Battery slurry drying

Develop a repeatable drying recipe for your battery material.

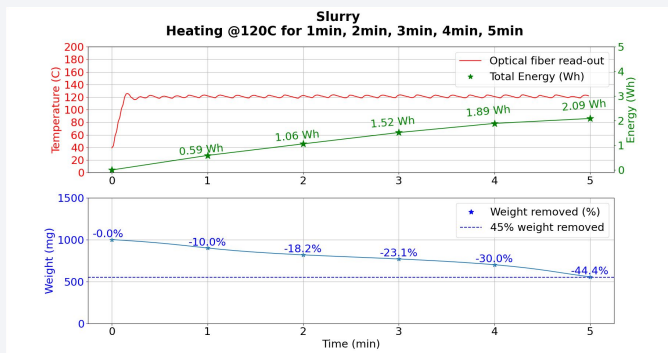
THE OPPORTUNITY

Explore controlled microwave heating of battery slurries. Compare treatment time, solvent or moisture endpoint, coating quality and energy against your baseline.

PERCY ROC EXPERIMENT

One supplied slurry trial showed 44.4% sample mass loss after 5 minutes near 120°C; plotted energy was 2.09 Wh. Confirm relevance to your formulation.

APPLICATION EVIDENCE



44.4%

mass loss at 5 min

2.09 Wh
plotted energy

Mass loss is not a moisture assay; plotted energy is not verified wall-plug consumption.

Battery slurry: moisture or solvent endpoint, quality and repeatability.

90-DAY MICROWAVE PROCESS-DEVELOPMENT PROGRAMME

SEK 120,000

 excluding VAT

Setup delivered to you: SEK 60,000. 30 engineering hours at SEK 1,500/hour, including six experiments: SEK 45,000. Final report and review: SEK 15,000.

Additional engineering packages available. Specialist external analyses quoted separately.

Want to explore similar results?

Operate locally with Percy Roc's remote guidance. Percy Roc retains ownership. Start your mandatory 90-day programme.

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MICROWAVE PROCESS DEVELOPMENT

Graphene oxide reduction

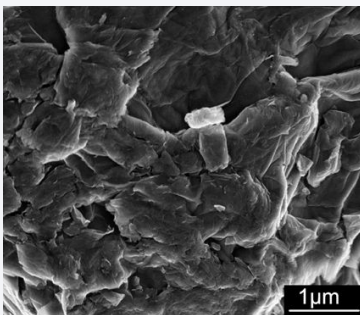
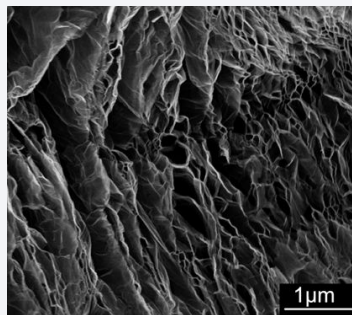
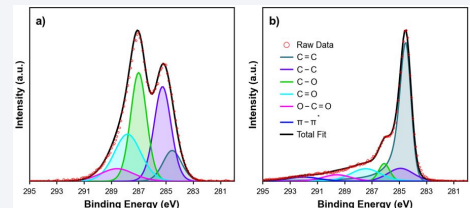
Explore a repeatable route from GO to functional rGO.

THE OPPORTUNITY

Develop microwave-assisted GO reduction for conductive additives, coatings and battery materials. Agree the chemistry and performance endpoints first.

PERCY ROC EXPERIMENT

Microwave-treated rGO was examined using XPS and Raman and incorporated into LFP cathode formulations. New analyses are scoped separately.

APPLICATION EVIDENCE**GO****Microwave-treated rGO****XPS characterisation**

rGO: reduction chemistry, conductivity and application performance.

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MICROWAVE PROCESS DEVELOPMENT

Microwave-assisted PLA synthesis

Develop material-specific polymerisation recipes with our team.

THE OPPORTUNITY

For suitable, validated recipes, microwave technology can reduce processing to minutes, delivering rapid, efficient results while meeting agreed quality criteria.

PERCY ROC EXPERIMENT

PLA synthesis was demonstrated using Percy Roc microwave technology. Confirm reaction time, conversion, molecular weight and material quality for your recipe.

APPLICATION EVIDENCE

Lactide feedstock



PLA sample



End-use illustration

PLA: conversion, molecular weight and agreed material properties.

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