

Black Mass CRMs

Recycled Li-NMC batteries

The Black Mass Certified Reference Materials (CRM) are designed for the elemental analysis of recycled Lithium battery materials. The growth of the use of Lithium-Ion batteries and the constricted supply chain of the essential raw materials contained in these energy storage devices has led to many of them being designated as critical materials. This designation has led to an increase in the recycling of these materials and the development of a circular economy for these elements.

These matrix-matched, ISO 17034 accredited, CRMs are ideal for use in multiple points in the recycling workflow, from raw material sorting to final quality control steps.



Features:

Description	Composition Highlights (approx.)	Size	Part Number
Black Mass: Li-NMC batteries (622/811)	Li @ 4.1 wt.%; Ni @ 23.1 wt.%; Mn @ 5.3 wt.%; Co @ 6.1 wt.%; C-(Graphite) @ 11.6 wt.%	40 grams	AC18.10664.0100
Black Mass: Li-NMC batteries (622)	Li @ 1.8 wt.%; Ni @ 9.2 wt.%; Mn @ 2.8 wt.%; Co @ 2.9 wt.%; C-(Graphite) @ 35.3 wt.%	40 grams	AC18.10665.0100

- ▶ Certified for critical elements for Li-NMC batteries
- ▶ Characterized for contaminants including iron
- ▶ Particle size of 100% passing 30 µm for optimum homogeneity
- ▶ Appropriate for use with ICP-OES/MS, AA, XRF, LIBS
- ▶ Packaged in wide-mouth jar for easy handling and storage

Whether you are analyzing by XRF or ICP, these standards can help you maximize your critical material recoveries.

