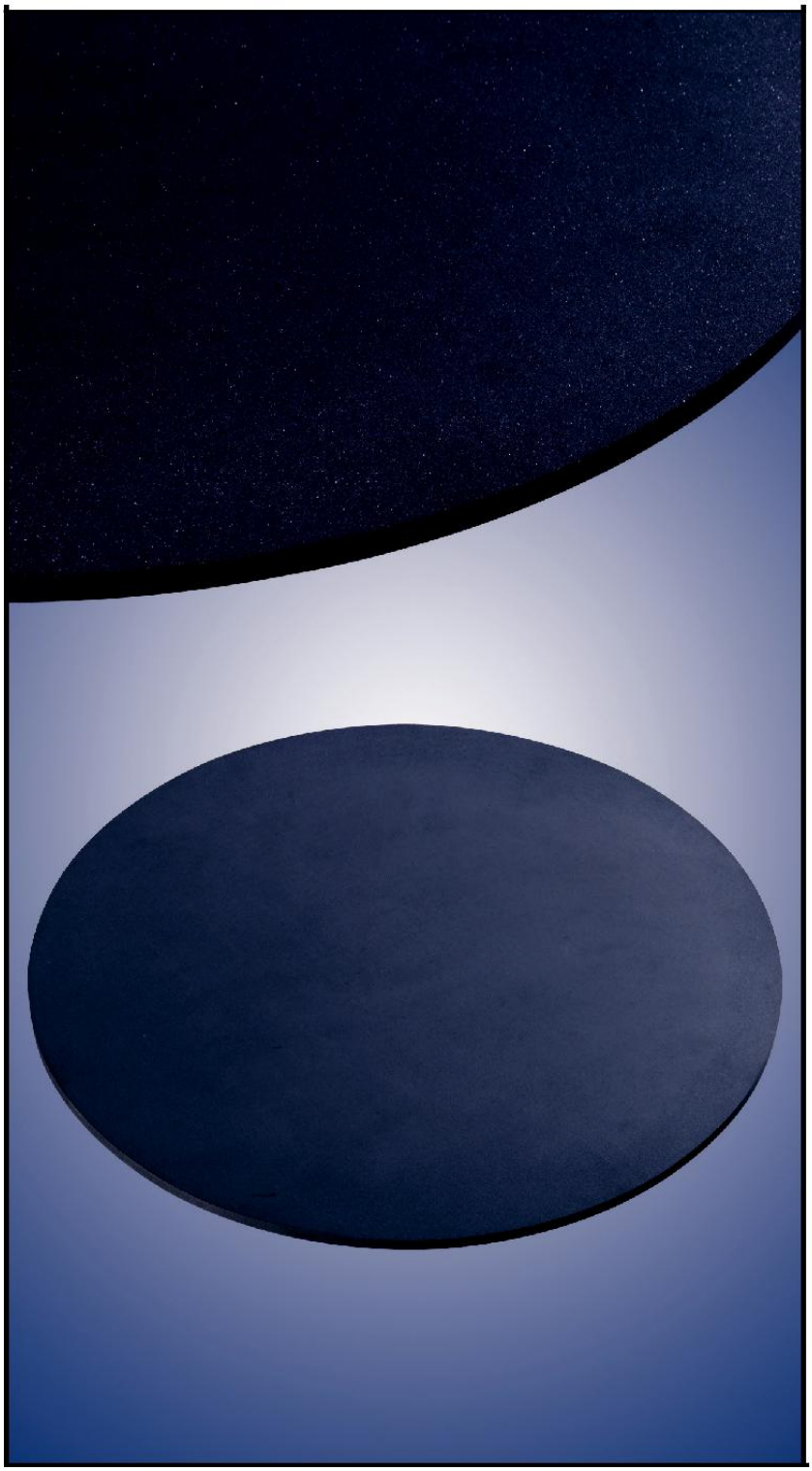
Lithium Cobalt Oxide

$LiCoO_2$

Sputtering Targets

Advanced Engineering Materials



Applications

- Cathode layer in rechargeable thin film batteries

Features

- High density
- Stoichiometric
- Electrically conductive at room temperature
- Phase pure
- Homogenous

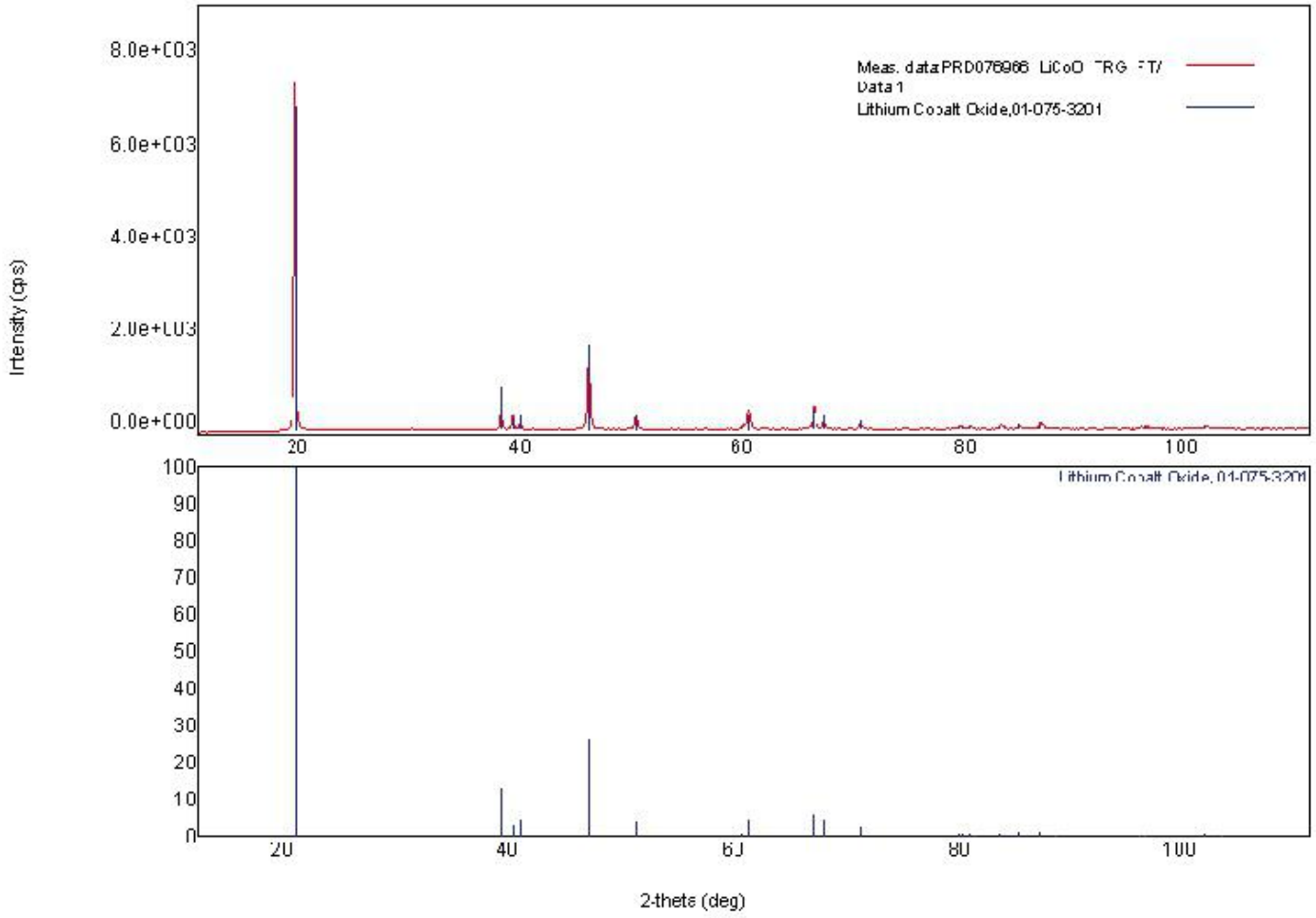
Manufacturing Process

- In-house powder synthesis
  - High purity metal oxide precursor materials
  - High energy mixing
  - Particle sizing processes
- Multiple step densification
  - Proprietary processes employed for pressing and sintering
- Cleaning and final packaging
  - Cleaned for use in vacuum
  - Protection from environmental contaminants
  - Protection during shipment

Options

- 99.9% purity
- Custom compositions may be available upon request
- Circular targets up to 12” (300 mm) diameter
- Planar tiles up to 8” (250 mm) X 5” (125 mm) for larger target configurations
- Smaller sizes also available for R&D applications
- Sputtering target bonding service

X-Ray Diffraction Pattern of Sintered $LiCoO_2$ Sputtering Target



Specifications

Typical Analysis - 99.9% (3N) Purity
Metallic Impurities, ppm by weight

Al	Ca	Cr	Cu	Fe	Mg	Mo	Na	Ni	Si	Zn	Zr
<100	<100	<100	<20	<200	<50	<10	<50	<200	<100	<10	<100

Theoretical Density	5.03 g/cm₃
Relative Density	4.62 g/cm₃ minimum
Appearance	Dark gray to black

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