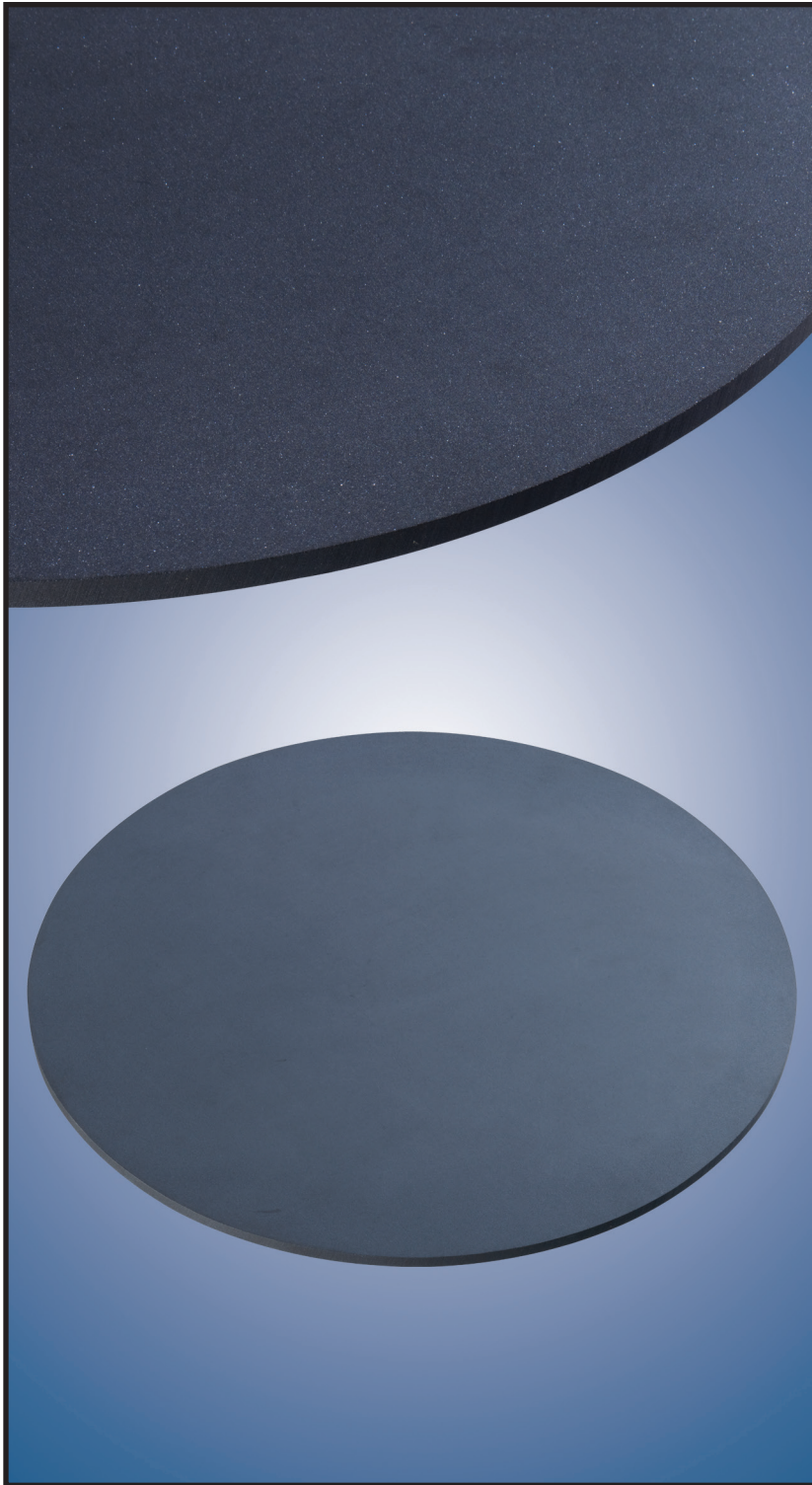


Lithium Cobalt Oxide



Sputtering Targets



Kurt J. Lesker
Company

MATERIALS
DIVISION

Applications

- Cathode layer in rechargeable thin film batteries

Features

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

Manufacturing Process

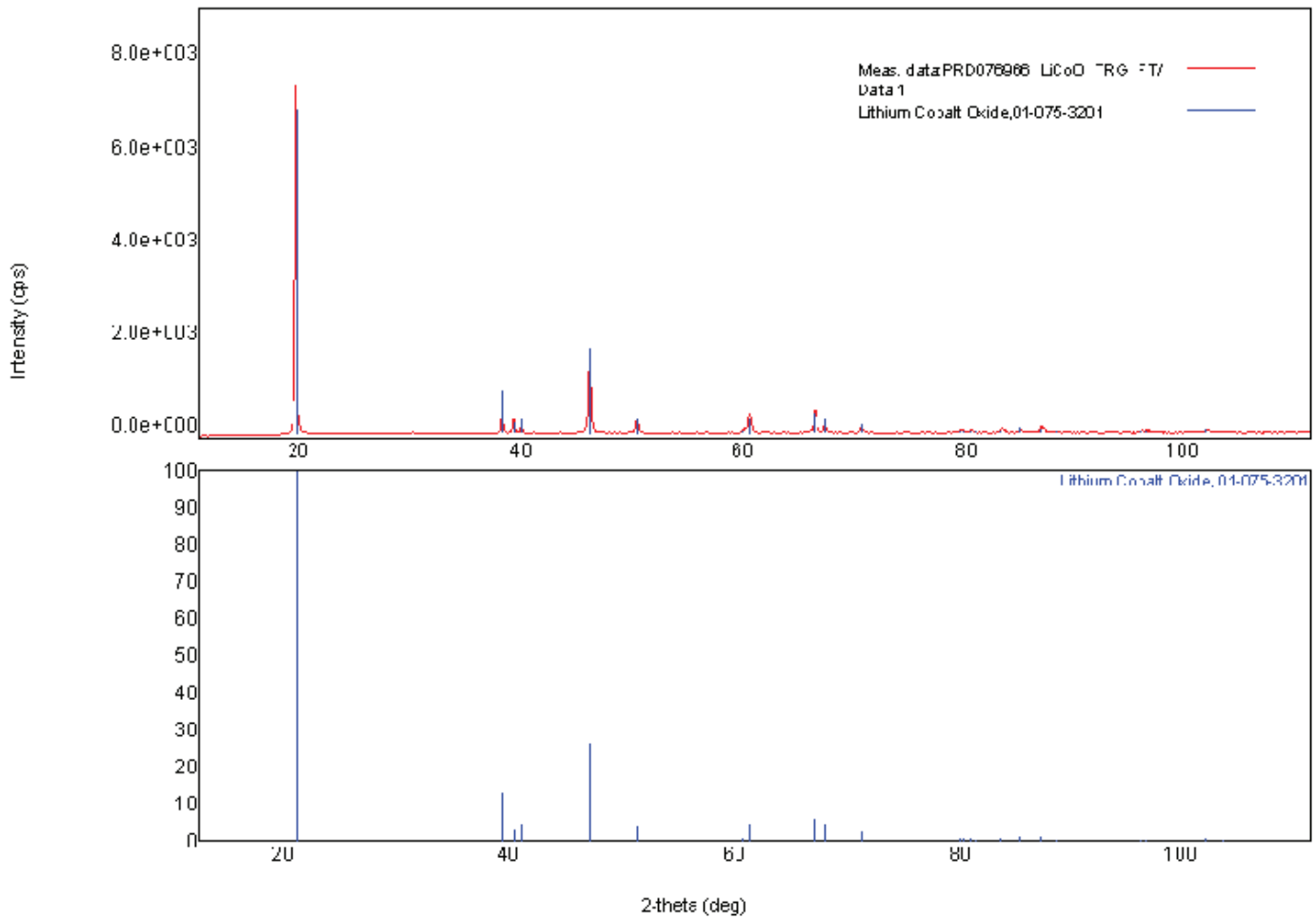
- In-house powder synthesis
 - High purity metal oxide precursor materials
 - High energy mixing
 - Particle sizing processes
- Multiple step densification
 - Proprietary processes employed for pressing and sintering
- Cleaning and final packaging
 - Cleaned for use in vacuum
 - Protection from environmental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

www.lesker.com

X-Ray Diffraction Pattern of Sintered LiCoO₂ 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/cm ³
Relative Density	4.62 g/cm ³ minimum
Appearance	Dark gray to black

Kurt J. Lesker Company (KJLC®) specifications and/or test data may not be copied, reproduced or referenced without express written permission of KJLC.

Kurt J. Lesker[®] Company **Enabling Technology for a Better World** | www.lesker.com

Kurt J. Lesker Company
United States - salesus@lesker.com
412.387.9200
800.245.1656

Kurt J. Lesker Canada Inc.
Canada - salescan@lesker.com
416.588.2610
800.465.2476

Kurt J. Lesker Company Ltd.
EMEIA - EMEIASales@lesker.com
+44 (0) 1424 458100

Kurt Lesker (Shanghai) Trading Company
科特·莱思科(上海)商贸有限公司
Asia - salesasia@lesker.com
+86 21 50115900