



Moses Lake Industries – Member Update

NAATBatt 2022

Wyatt Olson | Sr. Program Manager – Battery Materials



TAMA GROUP INTRO

TAMA CHEMICALS CO. LTD (JAPAN)

Established 1949

MOSES LAKE INDUSTRIES

(Moses Lake, WA)

Established 1984

KEMITEK

(Taiwan)

Joint Venture

Established 1997

AGNOS

(Singapore)

Joint Venture

Established 2002

NEPES CORPORATION

(Korea)

Partnership

Established 1997

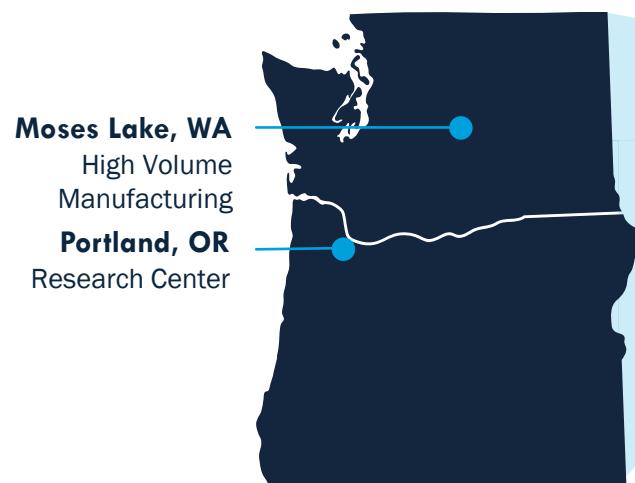
MOSES LAKE DALIAN
CHEMICAL INDUSTRIES
(China)
Established 2008

MOSES LAKE
XI'AN CHEMICAL
INDUSTRIES
(China)
Established 2012

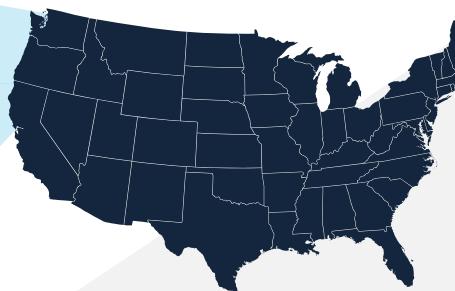
MLI ADVANCED
RESEARCH
CENTER
(Portland, OR)
Established 2017

GLOBAL OPERATIONS

MLI US OPERATION



TAMA GROUP GLOBAL NETWORK



United States of America



Japan



Europe



Korea



Taiwan



China



Singapore

TRADITION OF SUCCESS





PRODUCT LINES



TMAH BASED DEVELOPERS

METAL PLATING ADDITIVES AND ELECTROLYTES

CUSTOM SPECIALTY CHEMICAL FORMULATIONS

BATTERY MATERIALS



CORE CAPABILITIES

IN-HOUSE INNOVATION



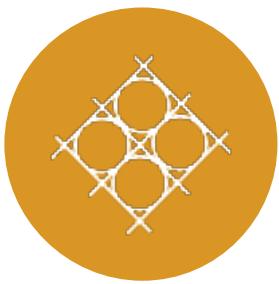
-  DEEP HISTORY OF ELECTROCHEMICAL AND MATERIALS SCIENCE RESEARCH
-  ADVANCED POLYMER, ORGANIC, INORGANIC RESEARCH & PRODUCTION
-  ROBUST SUPPLY CHAIN AND QUALITY CONTROL SYSTEMS
-  FAST RAMP OF MATERIALS FROM R&D TO PRODUCTION

BATTERY MATERIALS



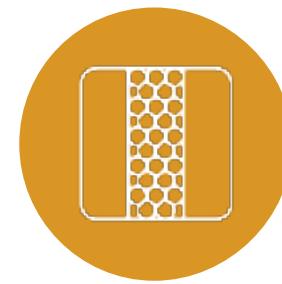
SPECIALTY LIQUID ELECTROLYTE

- US manufacturing
- Robust supply chain management for critical applications
- Flexibility and low minimum volumes for custom blends



POLYMER BINDERS FOR ELECTRODE

- Binders targeted to enable high power and high energy density
 - NMP-free process
- Optimized for customer cell chemistry and manufacturing



CUSTOM PRODUCTS

How can we partner with you to solve your chemical supply chain and technology challenges?

ADDITIONAL PRODUCTS IN EARLY EVALUATION

BATTERY MATERIALS UPDATE

- Established Battery Materials R&D Team in Portland, OR
- Completed Phase 1 of R&D lab at MLI's Advanced Research Center in Portland, OR
 - *Full battery testing lab with advanced materials characterization capabilities*
- Initial prototype binder shows performance equivalent to or better than PVDF in standard configuration cells
- Currently shipping R&D scale liquid electrolyte for customer evaluation and lab use
- Construction underway for pilot and medium volume specialty electrolyte production and raw materials purification





CONTACT US

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