

ISOLATE + MITIGATE

LITHIUM BATTERY RISKS DURING STORAGE & TRANSPORT



DynaLoc[®]LTC
Lithium Transport Container



U.S. CHEMICAL
storage[®] Justrite Safety Group

LITHIUM BATTERY RISKS ARE DIFFERENT



Explosion & Heat Risks

- Violent explosions
- Gas combustion
- Extreme temperatures



Toxic Gas Exposures

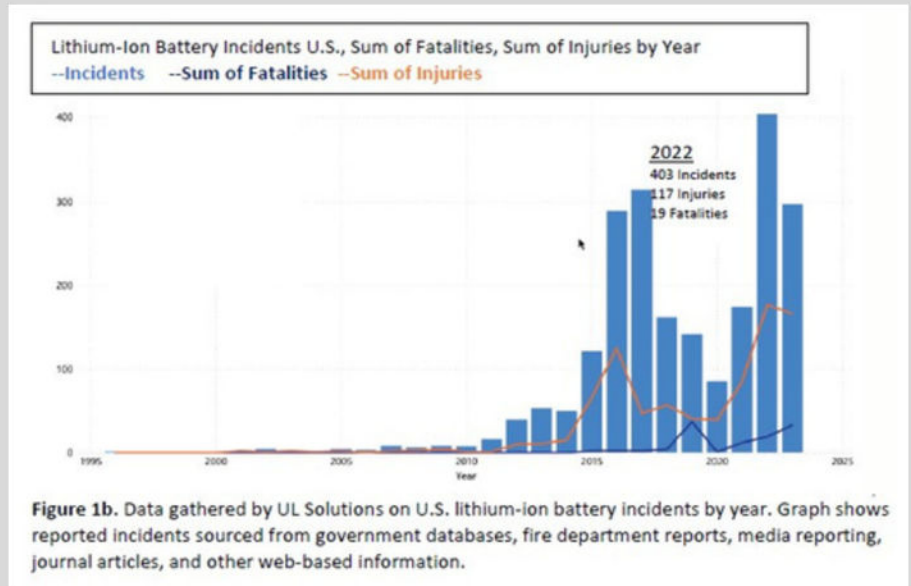
- Heavy smoke
- Hydrogen flouride gas
- Explosive pressure



Fire Fighting Challenges

- Spread quickly
- Re-ignition events
- Extremely difficult to extinguish

U.S. LITHIUM-BATTERY INCIDENTS, INJURIES & FATALITIES



Data gathered through August 2023

YOUR OPERATION IS AT RISK FROM LITHIUM-ION BATTERIES

DynaLocLTC can mitigate those risks by storing unsupervised batteries and will isolate batteries that are **DDR: damaged, defective, or ready for recycling.**

Transporting suspect or DDR batteries will be safe and secure within DynaLoc LTC.

VIEW TEST VIDEO



MADE FOR MISSION READINESS

Interior ballistic protection

basis of design is ATF Daybox standards. Offers non-sparking protection of exposed battery contacts. Prevents molten plastic and metals from igniting surroundings.

2-hour fire-rated interior coating

reduces exterior box temperatures to below 100°F* during a runaway event, preventing ambient ignition of adjacent materials or additional thermal runaway.

Gas filter

reduces gas emissions, releases pressure, and directs smoke

Welded aluminum construction






for strength with reduced weight.



*Temperatures will vary based on number of batteries contained. Representative of 9 cells in full runaway.



HOW WE COMPARE

	CONTAINS EXPLOSIONS	FILTERS GAS & SMOKE	CONTROLS TEMPERATURE	REMAINS SECURELY CLOSED
 DynaLocLTC <small>Lithium Transport Container</small>	✓	✓	✓	✓
 55gal Drum	✗	✗	✗	✓
 "Roadie" Case	✗	✓	✓	✓
 Fire Blanket	✗	✗	✗	✗
 Doing Nothing	✗	✗	✗	✗

*some models only

KEEP IT CONTAINED

WOOD LINING AND PROPRIETARY COATING KEEPS THE INTERIOR INSULATED AND TEMPERATURES LOW. AND CONTAINS EXPLOSIONS AND VIOLENT KINETIC ENERGY.

SIDE-BY-SIDE TESTING PROVES THE DURABILITY AND SAFETY OF THE DYNALOC LTC.

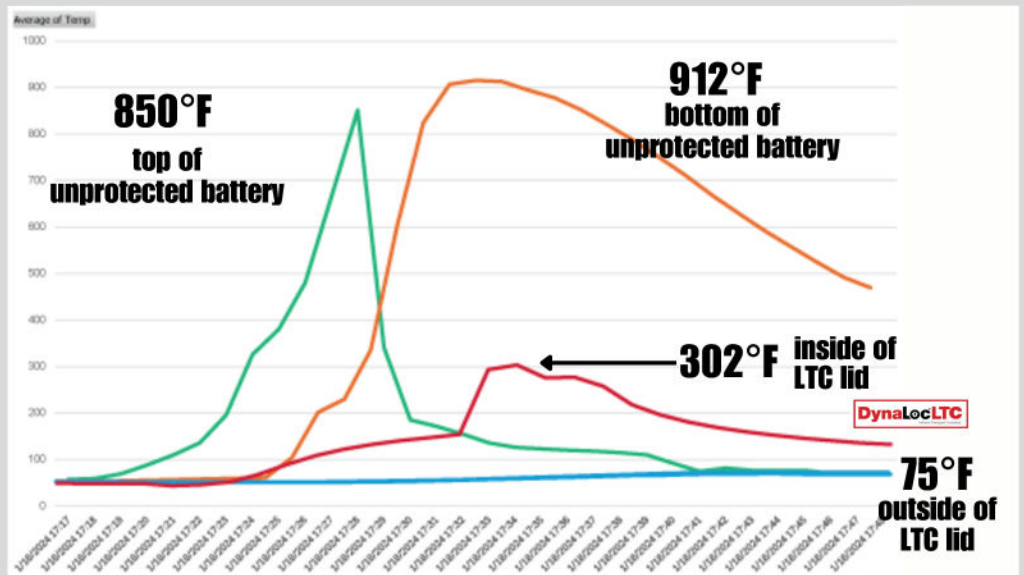
TEST RESULTS



Overcharged battery sent into runaway. Heat reached over 900 degrees. Thick, toxic smoke obscured vision and violent explosions damaged equipment.



In a DynaLoc LTC box, the battery flames and explosions are safely contained. Gas and pressure are directed through the filter.



In the test, the 56V 5.0Ah 280 WH battery spiked at over 900 degrees, exploding so violently, the sensor on the top was destroyed within 12 minutes.

The same overcharged battery in the LTC never released any flame and explosions were safely contained.



DynaLocLTC
Lithium Transport Container

MITIGATE BATTERY RISK



LTC 509

Exterior dimensions:
L 14" x W 10.5" x H 9"

Max capacity: 3.0 gal



LTC 511

Exterior dimensions:
L 16" x W 14" x H 10.25"

Max capacity: 5.6 gal



LTC 521

Exterior dimensions:
L 25.125" x W 18" x H 13.125"

Max capacity: 18.9 gal

CUSTOMIZED OPTIONS AVAILABLE

WHO WE ARE

A leader in prefabricated hazmat storage structures since 1993, US Chemical Storage has been the gold standard of engineered solutions for those who utilize flammable, combustible, toxic, and other hazmat chemicals.

We have created buildings for charging, storage, and testing of large volumes of lithium-ion batteries for over a decade, so creating a solution for smaller volume users that was equally safe AND portable was a priority.

**Hope for the best, but prepare for the worst.
The DynaLocLTC can prepare you. Are you ready?**



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