

PERFORMANCE ADDITIVES FOR LITHIUM-ION BATTERIES



LITX[®] PRODUCT SELECTION GUIDE

CABOT CONDUCTIVE CARBON ADDITIVES	PRODUCT CHARACTERISTICS
LITX HP	<ul style="list-style-type: none">◆ Provides excellent electrode conductivity at low loading◆ Improves energy density and rate capability◆ Excellent choice for high-Ni NMC and NCA cathodes◆ Improves battery cycle life and maintains low DCIR, particularly at low SOC◆ Easy to disperse and enables high solids paste to deliver processing benefits◆ Reduces NMP usage
LITX 300	<ul style="list-style-type: none">◆ Enables batteries with high energy density◆ Improves electrode conductivity◆ Excellent cycle life even at low loadings◆ Improves mechanical properties enabling thicker electrodes◆ Good dispersion in solvent slurries◆ Used primarily as cathode additive
LITX 200	<ul style="list-style-type: none">◆ High conductivity enables high power batteries◆ Can be used at lower loading to improve energy density◆ Excellent cycle life due to improved carbon stability◆ Excellent dispersion in both solvent and aqueous slurries◆ Enables high solid loading slurries which can reduce manufacturing cost◆ Used as both cathode and anode additive

LITX[®] grades are specifically designed carbon conductive additives for lithium-ion batteries to enable high performance and safety:

- ◆ Proven track record with LITX additives
- ◆ Easy to disperse and process

We independently control the key carbon properties needed to deliver performance for lithium-ion batteries:

- ◆ Size, shape, surface, phase and purity
- ◆ LITX additives are uniquely differentiated from standard carbon additives

Global supply, wealth of experience:

- ◆ Our LITX grades are available globally
- ◆ We are the leading carbon black supplier for energy materials, with more than 135 years of supporting conductive application needs

We can provide assistance on techniques for the dispersion and incorporation of LITX carbon additives in electrode pastes.

For more information contact: battery.materials@cabotcorp.com or visit: cabotcorp.com/batteries

© 2018 Cabot Corporation. The LITX name is a trademark of Cabot Corporation. The data and conclusions contained herein are based on work believed to be reliable; however, Cabot cannot and does not guarantee that similar results and/or conclusions will be obtained by others. This information is provided as a convenience and for informational purposes only. No guarantee or warranty as to this information, or any product to which it relates, is given or implied. CABOT DISCLAIMS ALL WARRANTIES EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AS TO (i) SUCH INFORMATION, (ii) ANY PRODUCT OR (iii) INTELLECTUAL PROPERTY INFRINGEMENT. In no event is Cabot responsible for, and Cabot does not accept and hereby disclaims liability for, any damages, whatsoever in connection with the use of or reliance on this information or any product to which it relates. R09 2/2018