TECHNICAL DATA SHEET

LITEX™ LB 420

LITEX LB 420 is a styrene/butadiene copolymer latex for use as a binder in the anode of lithium-ion batteries. It offers excellent mechanical and electrochemical performance.

For further information regarding this product please refer to:

Katie Cranfield

Phone: +44 7519 120283
eMail: Kathryn.Cranfield@Synthomer.com

Property	Typical Value	Unit	Method[1]
Total Solids Content (TSC)	46	%	ISO 3251
pH-value	7.0		ISO 976
Viscosity	<300	mPa.s	ISO 1652
Tg	11	°C	

[1] internal method based upon the specified norm

Application Advice

LITEX LB 420 is a water based carboxylated styrene/butadiene copolymer latex used in the manufacturer of the anode electrode of lithium-ion batteries. It is easy to manufacturer anode slurries with LITEX LB 420, with the latex resisting gel formation during processing. LITEX LB 420 has strong binding properties producing cells with excellent cycle life and electrochemical performance it can be used with both graphite and silicon active materials.

LITEX LB 420 can also be used as a primer for Cu/Al current collector foils used in Lithium-ion battery electrode.

Please contact the Synthomer team for further advice on the formulation and use of LITEX LB 420.

Key Features

- High Peel Strength
- Low DCIR
- Low Rebounce

End Use Application

- High End EV
- Graphite Battery Anode
- Low Silicon Content Anode

Shipping and Storage

The product must be protected from frost and exposure to direct sunlight. Storage temperatures between +5 °C and +35 °C are recommended. The product contains in-can preservation to protect it against microbiological attack during transportation. For protection against microbiological contamination during storage appropriate plant hygiene is essential. Care must be taken that drums and containers are properly closed. During storage, shipping and handling contact with metal surfaces that are not corrosion protected must be avoided.

If stored according to these conditions and in the original unopened containers, the product will be stable for 12 months from packaging. Product should be used as soon as possible after opening. Detailed information is available on request.

Product Safety

Before handling, please read the Safety Data Sheet of this product for advice on safety, use and disposal.

Disclaimer: This information or data and any other advice or recommendations given or made by us (collectively "Information") are not intended to, nor do they, constitute professional advice or services. Information is provided "AS IS" and on an "AS AVAILABLE" basis and without warranty. We do not warrant or accept responsibility for the accuracy, timeliness or completeness of the Information or data or its suitability for a particular purpose. Synthomer makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Synthomer disclaims (i) any and all liability arising out of the application or use of any product (including as to infringement of third party intellectual property rights), (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability. Any Information concerning any possible use or application of Synthomer products is given by us in good faith and it is entirely for you to satisfy yourself fully as to the suitability of Synthomer products for any particular purpose. Synthomer products are sold in accordance with Synthomer's standard terms and conditions of sale which are available from www.synthomer.com/tc.