

Mr Tek's Li-TFSI Pure

Introduction

LiTFSI is used as an additive or main lithium salt to improve performance and safety of Li-Ion batteries liquid electrolyte and Lithium Metal Polymer (LMP) batteries, commonly used in computers, notebooks, mobile phones, power tools, e-bikes and electrical vehicles

Features and Benefits

LiTFSI salt additives for Li-Ion battery liquid electrolyte provide:

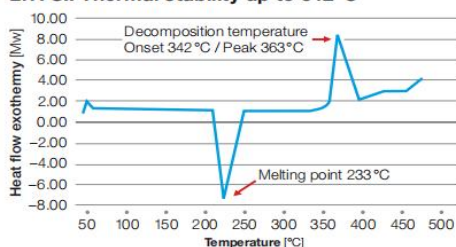
- Increased battery performance
- High intrinsic safety thanks to chemical and thermal stability
- Reduced battery costs over product lifetime
- Reduced battery filling time
- Aluminium collector passivation against corrosion in LiTFSI + LiPF₆ blends for high performance in high voltage and density battery

Advantages

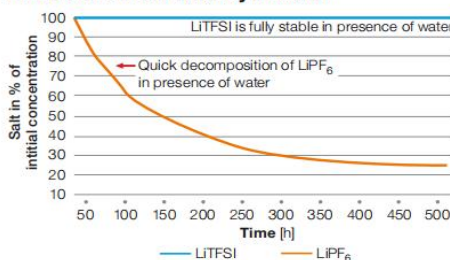
Best conductivity and chemical stability in combination with conductive polymers

- Compatibility with heated cell technologies (80 °C)
- Compatibility with polymer film extrusion

LiTFSI: Thermal stability up to 342°C



LiTFSI: Chemical stability in water



Material Description

Name: Li-TFSI Pure

Chemical name: Methanesulfonamide, 1,1,1-trifluoro-N-[(trifluoromethyl)sulfonyl]-, lithium

Color(10w/w% aqueous)	≤100 Hazen
Assay (100-sum of)	≥99.9%
Water (KF, w/w%)	≤0.1 %
pH value(Aqueous solution)	6.0 to 8.0
Turbidity (25% in)	≤5 NTU
Chloride (Ionic)	≤15 ppm
Fluoride (Ionometry)	≤15 ppm
Sulphate (Ionic)	≤15 ppm
Acetate Salt (Ionic)	≤100 ppm
Sodium (Na, AAS)	≤5 ppm
Potassium (K, ICP-AES)	≤5 ppm
Iron (Fe, ICP-AES)	≤5 ppm
Aluminium (Al, ICP-AES)	≤1 ppm
Silicon(Si, ICP-AES)	≤5 ppm
Nickel(Ni, ICP-AES)	≤1 ppm
Boron(B, ICP-AES)	≤1 ppm

Calcium(Ca, ICP-AES)	≤5 ppm
Magnesium(Mg, ICP-AES)	≤1 ppm
Copper(Cu, ICP-AES)	≤1 ppm
Lead(Pb, ICP-AES)	≤1 ppm
Zinc(Zn, ICP-MS)	≤1 ppm
Hg (ICP-MS)	≤1 ppm
As (ICP-MS)	≤1 ppm
Cd (ICP-MS)	≤1 ppm
Cr (ICP-MS)	≤1 ppm

Product Handling and Shelf Life

Li-TFSI has a shelf life of at least 2 years and Mr Tek will warrant the product specifications for this period from date of manufacture for material in unopened and properly stored containers.

Please refer to the LiTFSI Safety Data Sheet (SDS) for instructions on safe and proper handling and disposal of this product.