

## The Underlying Metals for Lithium-ion Batteries



Atomic Number  
**3**  
Alkali Metal

Atomic Mass  
**6.94**

### Lithium [Li]

A soft, silvery-white alkali metal. Lithium is the lightest of all metals, has the greatest electrochemical potential, and provides the largest specific energy per weight.

**BATTERY USE**  
[ LCO - LMO - LFP - NMC - NCA ]



Atomic Number  
**27**  
Transitional Metal

Atomic Mass  
**58.93**

### Cobalt [Co]

Hard, lustrous silver-gray metal extracted as a by-product when mining nickel and copper. Used as a cathode material in Li-ion batteries, but is very expensive.

**BATTERY USE**  
[ LCO - NMC - NCA ]



Atomic Number  
**28**  
Transitional Metal

Atomic Mass  
**58.68**

### Nickel [Ni]

A silvery-white lustrous metal with a slight gold tinge that can be traced back to 3500 B.C. Found in large nickel-iron meteorites on earth and found in combination with iron.

**BATTERY USE**  
[ NMC - NCA ]



Atomic Number  
**25**  
Transitional Metal

Atomic Mass  
**54.94**

### Manganese [Mn]

Produced by mining iron and other minerals, it is relatively abundant. Steel manufacturing uses roughly 90% of manganese production. Also used as a cathode material.

**BATTERY USE**  
[ LCO - NMC ]



Atomic Number  
**6**  
Metalloid

Atomic Mass  
**12.01**

### Graphite [C]

Graphite is an allotrope and stable form of carbon. Used as an anode, it is heat-resistant, electrically and thermally conductive, chemically passive, and lighter than aluminum.

**BATTERY USE**  
[ LCO - LMO - LFP - NMC - NCA ]

BATTERY TYPE: LCO - Lithium Cobalt Oxide / LMO - Lithium Cobalt Oxide / LFP - Lithium Iron Phosphate / NMC - Lithium Nickel Manganese Cobalt Oxide / NCA - Lithium Nickel Cobalt Aluminum Oxide

## STRONG DEMAND, LIMITED SUPPLY

The growing market for lithium-ion batteries is being driven by continued demand for mobile devices, the accelerating pace of global electric vehicle adoption, and the rising need for grid energy storage solutions. This growth trend creates significant opportunities for investment in the underlying elements contained within lithium-ion batteries.

Sources: EQM Indexes LLC, Wikipedia, Battery University.

The Amplify Lithium & Battery Technology ETF (BATT) is a portfolio of companies generating significant revenue from the development, production and use of lithium battery technology, including: 1) battery storage solutions, 2) battery metals & materials, and 3) electric vehicles. BATT seeks investment results that correspond generally to the EQM Lithium & Battery Technology Index.

***Carefully consider the Fund's investment objectives, risk factors, charges, and expenses before investing. This and additional information can be found in Amplify Funds statutory and summary prospectus, which may be obtained above or by calling 855-267-3837, or by visiting AmplifyETFs.com. Read the prospectus carefully before investing.***

Investing involves risk, including the possible loss of principal. Shares of any ETF are bought and sold at market price (not NAV), may trade at a discount or premium to NAV and are not individually redeemed from the Fund. The Fund is not actively managed. The Fund invests in securities included in its Index regardless of their investment merit. Narrowly focused investments typically exhibit higher volatility. A portfolio concentrated in a single industry, such as lithium battery technology, makes it vulnerable to factors affecting the companies. The Fund may face more risks than if it were diversified broadly over numerous industries or sectors. The Fund has become more susceptible to potential operational risks through breaches in cybersecurity. The Fund invests in securities that are issued by and/or have exposure to, companies primarily involved in the metals and mining industry. Investments in metals and mining companies may be speculative and subject to greater price volatility than investments in other types of companies. The exploration and development of metals involves significant financial risks over a significant period of time, which even a combination of careful evaluation, experience and knowledge may not eliminate. Rare earth metals have more specialized uses and are often more difficult to extract. The increased demand for these metals has strained supply, which could adversely affect the companies in the Fund's portfolio. Some of the companies in which the Fund will invest are engaged in other lines of business unrelated to the mining, refining and/or manufacturing of metals and these lines of business could adversely affect their operating results.

The Fund's assets are concentrated in the materials sector, which means the Fund will be more affected by the performance of the materials sector than a fund that is more diversified. The Fund currently has fewer assets than larger funds, and like other relatively new funds, large inflows and outflows may impact the Fund's market exposure for limited periods of time. The Fund will invest in the securities of non-U.S. companies. Investments in emerging market issuers are subject to a greater risk of loss than investments in issuers located or operating in more developed markets. The mining, refining and/or manufacturing of metals may be significantly affected by regulatory action and changes in governments. Small and/or mid-capitalization companies may be more vulnerable to adverse general market or economic developments. Electric vehicle technology is relatively new and is subject to risks associated with a developing industry.

The EQM Lithium & Battery Technology Index (BATTIDX) seeks to provide exposure to global companies associated the development and production of lithium battery technology and/or battery storage solutions; the exploration, production, development, processing, and/or recycling of the materials and metals used in lithium battery chemistries such as Lithium, Cobalt, Nickel, Manganese, Vanadium and/or Graphite; and/or the development and production of electric vehicles.

Amplify Investments LLC is the Investment Adviser to the Fund, and Toroso Investments, LLC serves as the Investment Sub-Adviser.

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