



# FOCUS

G R A P H I T E

ADVANCED MATERIALS

## Transforming Critical Mineral Supply Chains

### A Strategic Advanced Stage Project in North America

Our flagship graphite project is situated in one of the most mining-friendly jurisdictions in the world. With **16 years of progress in an 18-year average permitting process**, we are nearing operational readiness. The deposit is characterized by high-purity natural flake graphite, essential for manufacturing advanced materials and technologies.

### A FINISH LINE IN SIGHT OUR JOURNEY TO INNOVATION



#### DOMESTIC SUPPLY CHAIN

- Located in North America
- Mining-Friendly jurisdiction.
- Direct ground access



#### HIGH VALUE PRODUCTS

- High-purity natural flake graphite
- Multi-grade deposit for a wider range of applications



#### LOW ENVIRONMENTAL IMPACT

- Unique deposit characteristics allow for green processing.
- No harmful chemicals in process
- Gypsum is the benign byproduct of the entire process.

# Why High-Purity Graphite Matters



## NATIONAL SECURITY

- Secure access to high-purity graphite is vital for reducing dependence on foreign suppliers.
- NATO identifies graphite as a critical mineral for allied defense and infrastructure..
- Limited North America production creates a significant strategic vulnerability.



## ELECTRIC VEHICLES (EVS)

- Essential for lithium-ion batteries.
- Clean, natural flake graphite outperforms synthetic alternatives for high-capacity.
- Supports the transition to green energy and zero-emission transportation.



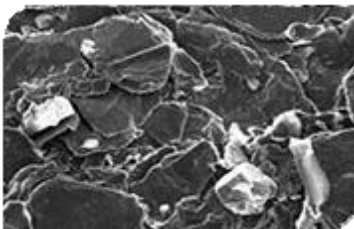
## ADVANCED MANUFACTURING

- Key material for specialty alloys, nuclear reactors, semiconductors and high-performance coatings.
- Many high-end applications require natural flake graphite, synthetic graphite cannot meet the performance, purity, or structural requirements.



We collaborate with the Advanced Energy Technologies Company (AETC) to validate our materials for high-end applications. The U.S. Navy and Army utilize AETC to validate materials for their various applications and strategic importance for the U.S.

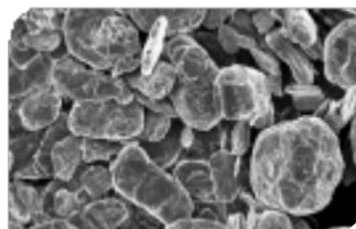
# Graphite Mesh Applications



## +50 Mesh Material

### Value-Added Markets:

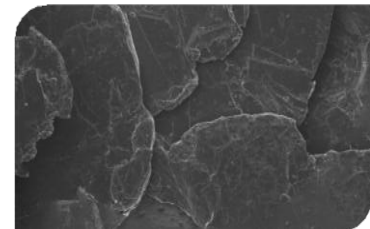
- Fire suppressants and retardants.
- Expandable graphite for foils and alkaline batteries.
- Grades for fuel cells.
- Specialty ductile irons for internal combustion engines.
- Established relationships with Toyota and other automotive manufacturers.



## +100 to -50 Mesh Material

### Advanced Industries:

- Synthetic diamonds for cutting tools, drill bits, and ballistic armor.
- Applications in gemstones and semiconductors.
- Nuclear-grade graphite.
- Premium-quality graphite electrodes for aluminum, magnesium, and steel melting.



## -100 Mesh Material

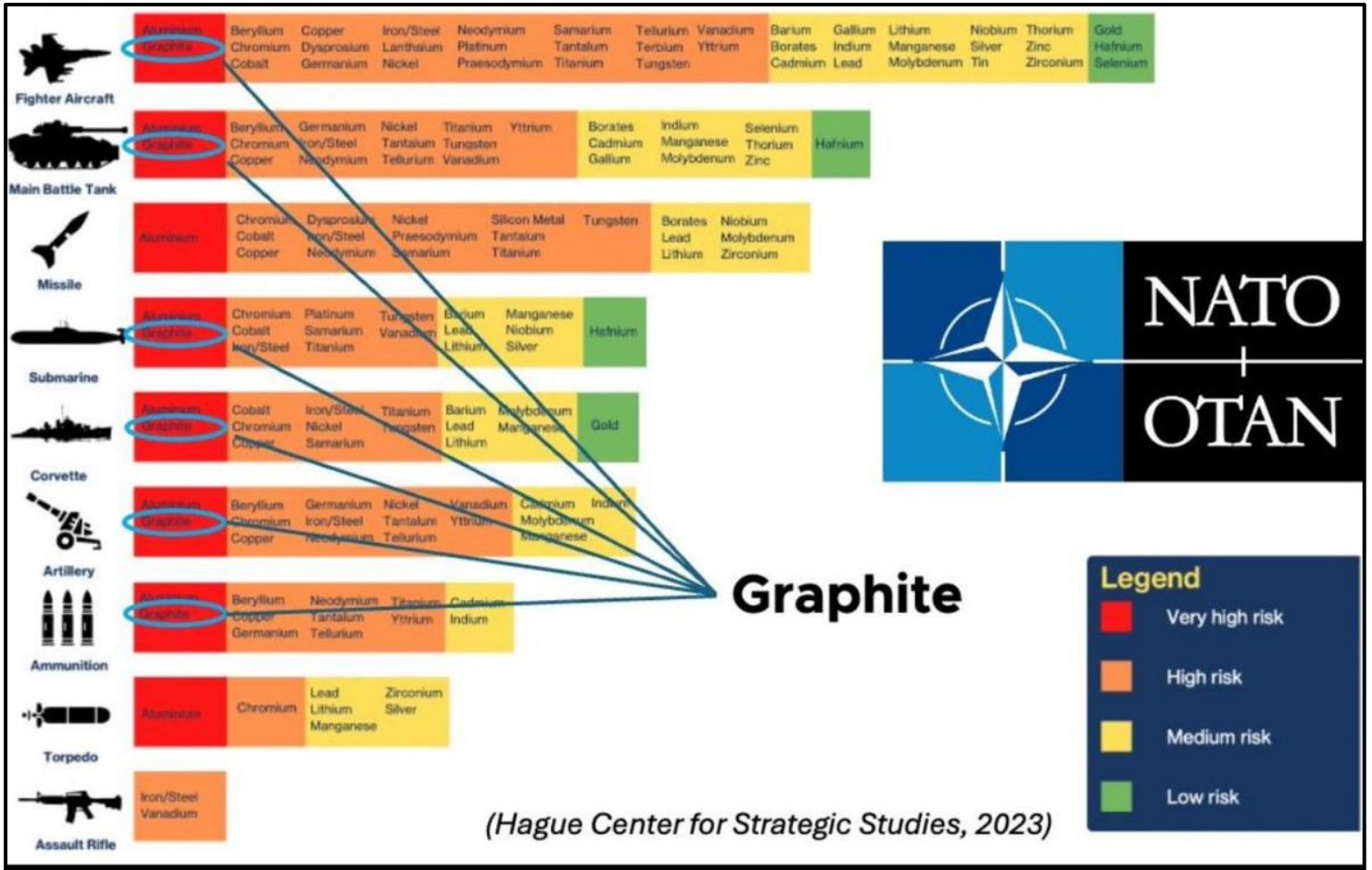
### Battery and Coatings:

- Graphite for lithium-ion, lead-acid, and metal|air batteries.
- Applications in super capacitors and fuel cells.
- Electrically conductive, icephobic, stealth, and anti-corrosion coatings.

# A Military Defense Solution

## Supply risk for critical raw materials in military applications

NATO identified 12 defence-critical raw materials essential for the Allied defence. These materials are integral to the manufacture of advanced defence systems and equipment.<sup>†</sup>



<sup>†</sup> [https://www.nato.int/cps/en/natohq/news\\_231765.htm](https://www.nato.int/cps/en/natohq/news_231765.htm)



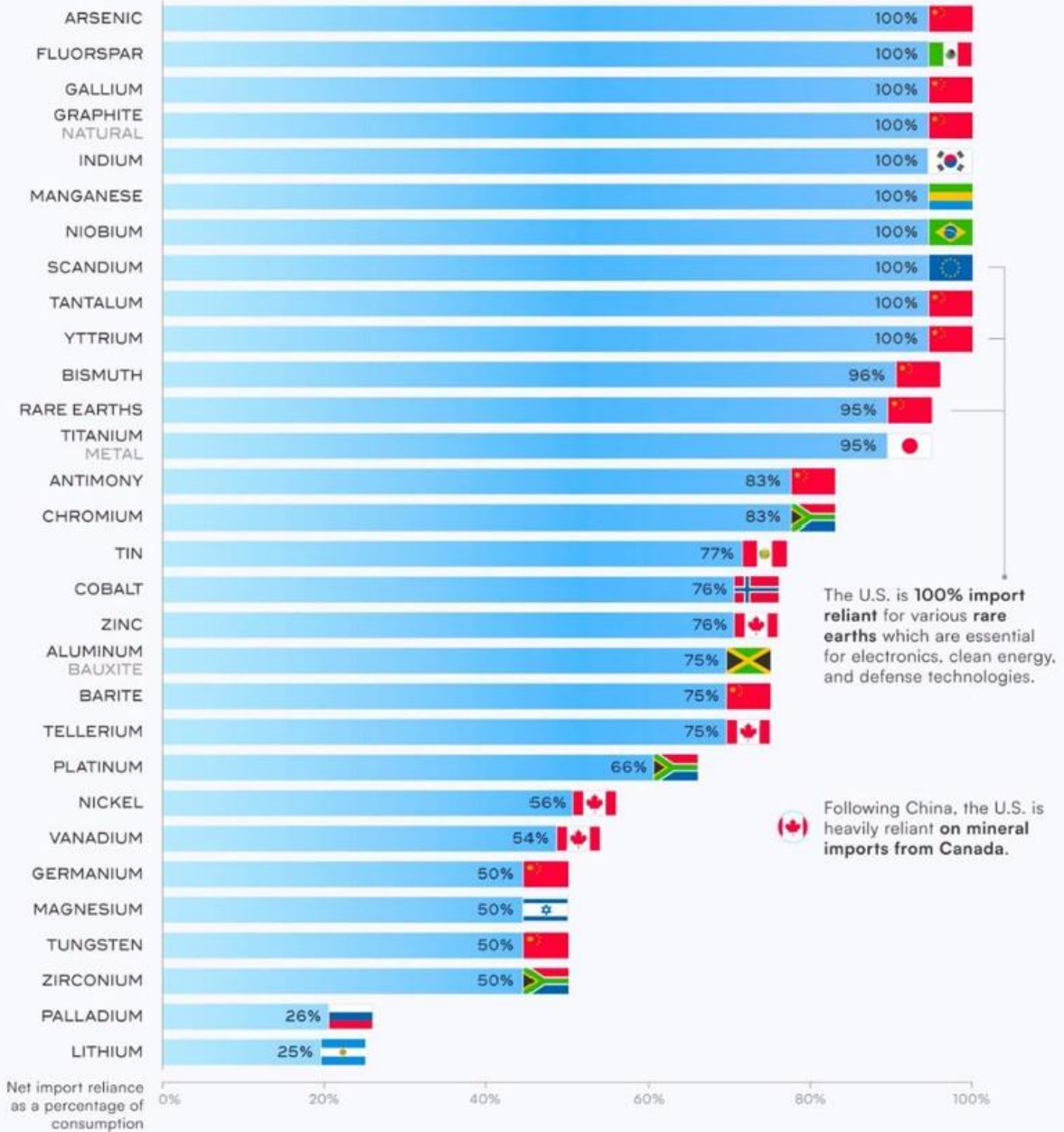
# AMERICA'S IMPORT RELIANCE OF CRITICAL MINERALS

The U.S. relies on a variety of nations to import critical minerals.

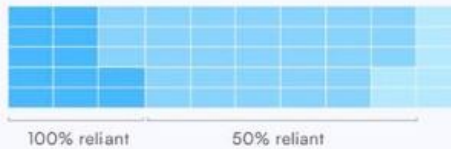
How dependent is the U.S. on imports for specific minerals, and which countries does the U.S. depend on most?

America's Import Reliance of Critical Minerals

Primary Import Source

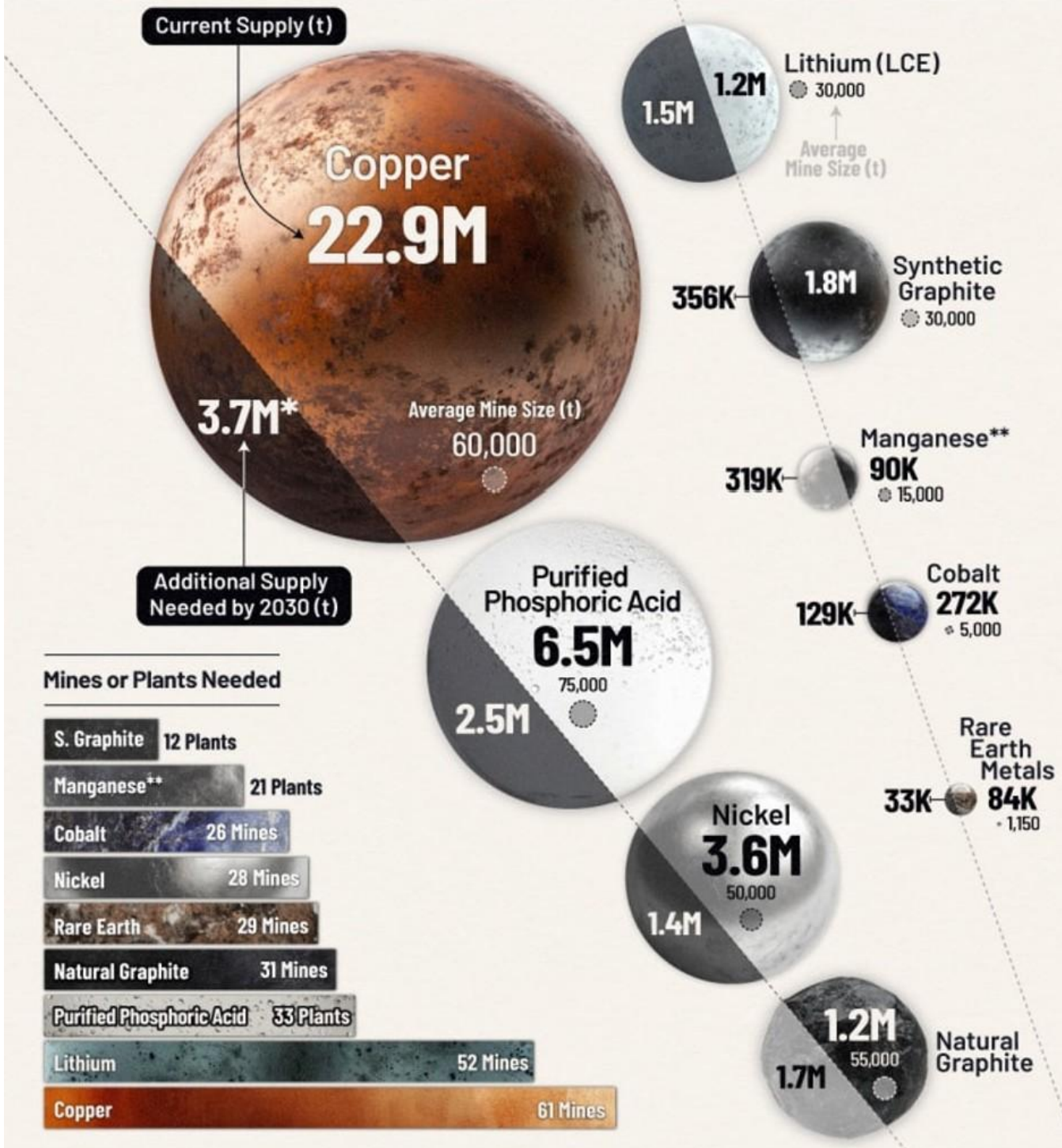


Out of the 50 minerals deemed critical by the U.S. government, the U.S. is 100% reliant on imports for 12 of them, and over 50% reliant for another 31 critical minerals



# HOW MANY NEW MINES ARE NEEDED FOR THE ENERGY TRANSITION

Meeting global battery demand by 2030 would require **293** new mines.



\*Mined copper demand refers to the projected requirement for copper sourced from mining, calculated by subtracting the anticipated contribution of recycled scrap from the overall future copper demand.

\*\*High Purity Manganese Sulphate Monohydrate



# The Need for North American Graphite Independence



- **Limited Domestic Supply:** North America relies heavily on imports from China and Brazil, with over 66% of global battery-grade graphite sourced from China.
- **Synthetic Graphite Limitations:** Synthetic graphite cannot meet the high-purity and performance standards required for many critical applications, including EV batteries and advanced manufacturing.
- **Incentives for Local Minerals:** U.S. and Canadian policies encourage the use of local critical minerals through subsidies and tax credits, making North American graphite an increasingly attractive choice.

# Driving Innovation with Proprietary Technology



Standard  
Spheritized Graphite

## INCREASED CAPACITY THE POWER OF SILICON

- Graphite
- Silicon



**FOCUS**  
Silicon Enhanced  
Graphite

We have developed a patent-pending silicon-enhanced spheroidized anode technology that significantly increases power and capacity in lithium-ion batteries. Successfully tested in coin cells, this innovation:

- Incorporates multiple layers of silicon during the spheroidization phase of creating anodes resulting in enhanced performance.
- Offers a major improvement over traditional anode technologies.

A transformative solution  
for EVs and energy systems.



## Why Focus Graphite?

- **Proven Resource:** High-purity natural flake graphite, verified by top laboratories like AECT.
- **Aligned with National Priorities:** NATO and North American defense strategies emphasize the critical need for graphite.
- **Sustainability First:** Green processing methods align with environmental goals, reducing the carbon footprint of critical mineral production.
- **Market-Ready:** Decades of development ensure we are positioned to deliver material in the short term.

Join us in securing North America's critical mineral independence and driving innovation in graphite-based technologies.

## Investment Opportunity

We are seeking strategic partnerships with U.S. and Canadian companies for investment or off take agreements to:

- **Secure Critical Supply Chains:** Reduce reliance on foreign imports and establish a sustainable graphite supply.
- **Advance North American Leadership:** Support domestic industries in defense, EVs, and advanced manufacturing.
- **Scale Innovation:** Collaborate on groundbreaking silicon-enhanced anode technology for next-generation batteries.

With a proven resource, cutting-edge technology, and strong alignment with North American industrial priorities, our project is uniquely positioned to drive innovation and growth in critical mineral supply chains.

## Contact



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