



# Critical Minerals with Known Potential in Alberta

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Critical element or mineral <sup>A</sup>	Typical use	Common sources of mineral
<b>Cobalt</b>	Rechargeable batteries, superalloys	
<b>Copper</b>	Power transmission and generation, building wiring, telecommunications, and electronic products	
<b>Helium</b>	MRI imaging, lifting gas, and analytical and laboratory applications	
<b>Iron</b>	Steel production	
<b>Lithium</b>	Rechargeable batteries, ceramics and glass	
<b>Magnesium</b>	Steel production, aluminum alloy	
<b>Molybdenum</b>	Steel and cast iron alloy, superalloys	
<b>Nickel</b>	Stainless steel production, superalloys, batteries	
<b>Phosphorus</b>	Fertilizer, animal feed supplements	
<b>Potash</b>	Fertilizer	
<b>Rare-earth elements<sup>B</sup></b>	Magnets, catalysts, ceramics and glass, polishing powders	
<b>Scandium</b>	Aluminum alloy, fuel cells, ceramics, electronics	
<b>Silicon</b>	Steel and cast iron alloy, aluminum alloy, semiconductor production	
<b>Titanium</b>	Aerospace applications, armour, medical implants, power generation	
<b>Uranium</b>	Nuclear fuel	
<b>Vanadium</b>	Iron and steel alloy, catalysts, batteries	
<b>Zinc</b>	Anti-corrosion coating (galvanized metal), copper and tin alloy	

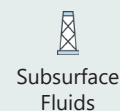
<sup>A</sup> These are critical minerals from Canada's critical minerals list (Government of Canada, 2024) that have known prospectivity in Alberta. Additional critical minerals not mentioned above may have potential in the province. They require further investigation to demonstrate their prospectivity.

<sup>B</sup> Rare-earth elements include: Lanthanum (La), Cerium (Ce), Praseodymium (Pr), Neodymium (Nd), Promethium (Pm), Samarium (Sm), Europium (Eu), Gadolinium (Gd), Terbium (Tb), Dysprosium (Dy), Holmium (Ho), Erbium (Er), Thulium (Tm), Ytterbium (Yb), and Lutetium (Lu).



Rock & Sediment

## Legend



Subsurface Fluids



Industrial waste