

MICA Analysis: What are the top 3 critical materials in Greenland...

Session ID: 2111eeea-5901-4dc1-8c29-484726ad44ef

Query: What are the top 3 critical materials in Greenland that are not available in mainland US or Alaska? Give me history from 2019-2024.

Generated: 2026-01-27 04:00 UTC

Generated: 2026-01-26 22:00:36

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1. Executive Summary

Error: Request failed - HTTPSConnectionPool(host='apps-dev.inside.anl.gov', port=443): Max retries exceeded with url: /argoapi/api/v1/resource/chat/ (Caused by NameResolutionError("HTTPSConnection(host='apps-dev.inside.anl.gov', port=443): Failed to resolve 'apps-dev.inside.anl.gov' ([Errno 8] nodename nor servname provided, or not known)"))

2. Analysis

Error: Request failed - HTTPSConnectionPool(host='apps-dev.inside.anl.gov', port=443): Max retries exceeded with url: /argoapi/api/v1/resource/chat/ (Caused by NameResolutionError("HTTPSConnection(host='apps-dev.inside.anl.gov', port=443): Failed to resolve 'apps-dev.inside.anl.gov' ([Errno 8] nodename nor servname provided, or not known)"))

3. Results: step_0

[{'title': 'Uranium Added to US Critical Minerals List: What It Means for National Security, AI', 'url': 'https://www.military.com/daily-news/2025/11/28/uranium-added-us-critical-minerals-list-what-it-means-national-security-ai.html', 'snippet': "The addition of uranium to the United States' critical minerals list could have wide-ranging economic and national security implications. On Nov. 6 the Department of the Interior, through the U.S. Geological Survey (USGS), published the final 2025 list ...", 'source': 'www.military.com'}, {'title': 'American Critical Minerals Highlights Recent Addition of Potash to Proposed US Critical Minerals List and Recent US Government Awards for Potash Developers', 'url': 'https://www.lcsun-news.com/press-release/story/412716/americancriticalmineralshighlightsrecentadditionofpotashtoproposeduscriticalmineralslistandrecentusgovernmentawardsforpotashdevelopers/', 'snippet': 'VANCOUVER, BC / ACCESS Newswire / September 23, 2025 / American Critical Minerals Corp. ("American Critical Minerals" or the "Company") (CSE:KCLI)(OTCQB:APCOF)(Frankfurt:2P3) applauds the recent decision of the U.S. Federal Government to formalize ...', 'source': 'www.lcsun-news.com'}, {'title': 'American Critical Minerals Applauds the Newly Updated 2025 U.S. Geological Survey List of Critical Minerals Now Including Both Potash and Lithium', 'url': 'https://www.elpasotimes.com/press-release/story/94849/american-critical-minerals-applauds-the-newly-updated-2025-us-geological-survey-list-of-critical-minerals-now-including-both-potash-and-lithium-2', 'snippet': 'VANCOUVER, BC / ACCESS Newswire / November 12, 2025 / American Critical Minerals Corp. ("American Critical Minerals" or the "Company") (CSE:KCLI)(OTCQB:APCOF)(FRANKFURT:2P30) is pleased to announce that the USGS has recently updated the Secretary ...', 'source': 'www.elpasotimes.com'}, {'title': 'The year the US doubled down on critical minerals', 'url': 'https://www.msn.com/en-us/money/markets/the-year-the-us-doubled-down-on-critical-minerals/ar-AA1SvZIU', 'snippet': 'President Donald Trump spent most of 2025 hacking away at large parts of the federal government. His administration fired, bought out, or otherwise ousted hundreds of thousands of federal employees. Entire agencies were gutted. By so many metrics, this ...', 'source': 'www.msn.com'}, {'title': 'Copper Added to New USGS Critical Minerals List Highlighting Increased Support for US Copper Projects Like American Pacific's Madison & Palmer Projects', 'url': 'https://seekingalpha.com/pr/20298315-copper-added-to-new-usgs-critical-minerals-list-highlighting-increased-support-for-us-copper', 'snippet': 'Vancouver, British Columbia--(Newsfile Corp. - November 6, 2025) - American Pacific Mining Corp. (CSE: USGD) (OTCQX: USGDF) (FSE: 1QC1) ("American Pacific" or the "Company") is pleased to highlight the recent addition of copper to the U.S. Geological ...', 'source': 'seekingalpha.com'}]

4. Results: step_1

[{'title': 'All the barriers to rare earth mining in Greenland', 'url': 'https://www.msn.com/en-us/news/world/all-the-barriers-to-rare-earth-mining-in-greenland/ar-AA1UkG8W', 'snippet': "All the barriers to rare earth mining in Greenland - Donald Trump wants to dismantle China's near-monopoly on the supply of rare earths", 'source': 'www.msn.com'}, {'title': "Why mining Greenland's minerals is so challenging", 'url': 'https://www.scientificamerican.com/article/why-mining-greenlands-minerals-is-so-challenging/', 'snippet': "Greenland's mineral resources hold massive economic potential, but accessing them isn't easy. President Donald Trump's desire to claim Greenland for the U.S. has thrust the island's wealth of natural resources firmly into the spotlight.", 'source': 'www.scientificamerican.com'}, {'title': 'U.S. government, tech giants, and mining companies circle Greenland for critical minerals', 'url': 'https://www.msn.com/en-us/news/world/us-government-tech-giants-and-mining-companies-circle-greenland-for-critical-minerals/ar-AA1Up88H', 'snippet': "The fight for control over the world's most important minerals is now reaching Greenland. The U.S. government, tech giants, and mining companies are circling the island for one reason: it's full of rare earths", 'source': 'www.msn.com'}, {'title': 'How rich is Greenland? Rich enough for the US to push hard over rare earth resources worth trillions', 'url': 'https://www.msn.com/en-us/politics/international-relations/how-rich-is-greenland-rich-enough-for-the-us-to-push-hard-over-rare-earth-resources-worth-trillions/ar-AA1TPX9K', 'snippet': "The Arctic is shifting. Ice loss continues at historic rates, global demand for critical materials accelerates, and one of the world's most sparsely populated regions is again at the center of geopolitical friction. At the heart of it is Greenland, whose ...", 'source': 'www.msn.com'}, {'title': "Greenland's harsh environment and lack of infrastructure have prevented rare earth mining", 'url': 'https://abcnews.go.com/US/wireStory/greenlands-harsh-environment-lack-infrastructure-prevented-rare-earth-129098070', 'snippet': "Greenland's harsh environment, lack of key infrastructure and difficult geology have prevented anyone from building a mine to extract the sought-after rare earth elements that many high-tech products", 'source': 'abcnews.go.com'}, {'title': "Why Trump's Greenland focus could break China's grip on AI-critical minerals", 'url': 'https://www.msn.com/en-us/news/world/why-trump-s-greenland-focus-could-break-china-s-grip-on-ai-critical-minerals/ar-AA1UGF8x', 'snippet': "Greenland's reserves of rare earth minerals rank as the world's eighth largest and nearly equal those of the U.S., according to the U.S. Geological Survey.", 'source': 'www.msn.com'}, {'title': "Why Trump's Greenland ambitions won't quickly solve America's rare earth gap", 'url': 'https://www.yahoo.com/news/articles/why-trump-greenland-ambitions-won-222635715.html', 'snippet': "Add Yaho"}]

5. Results: step_2

[{'title': 'Graphite One Confirms the Presence of Rare Earth Elements at its Graphite Creek Deposit', 'url': 'https://www.morningstar.com/news/pr-newswire/20251113to22944/graphite-one-confirms-the-presence-of-rare-earth-elements-at-its-graphite-creek-deposit', 'snippet': 'VANCOUVER, BC, Nov. 13, 2025 /PRNewswire/ - Graphite One Inc. (TSXV: GPH) (OTCQX: GPHOF) ("Graphite One", "G1" or the "Company") announced today that it has identified the presence of Rare Earth Elements ("REEs") in its Graphite Creek deposit, north of ...', 'source': 'www.morningstar.com'}, {'title': "US ramps up rare earth magnet production, invests \$50 million in Vulcan Elements amid China's global dominance", 'url': 'https://www.msn.com/en-in/news/world/us-ramps-up-rare-earth-magnet-production-invests-50-million-in-vulcan-elements-amid-china-s-global-dominance/ar-AA1PKRg6', 'snippet': "The Commerce Department and the Pentagon pledged on Monday to provide funding and possibly acquire equity in a US manufacturer of rare-earth magnets, a key issue in the ongoing trade conflict with China, the"}]

world's leading supplier. The department issued ...", 'source': 'www.msn.com'}, {'title': 'Top US graphite deposit adds rare earth elements to the mix', 'url': 'https://www.msn.com/en-ca/money/topstories/top-us-graphite-deposit-adds-rare-earth-elements-to-the-mix/ar-AA1Qnxva', 'snippet': 'Graphite One (TSXV:GPH) has discovered rare earth elements in its Graphite Creek deposit in Nome, Alaska, which is identified by the United States Geological Survey as the largest natural graphite deposit in the country, placing it at the centre of EV ...', 'source': 'www.msn.com'}, {'title': 'Tactical Resources Secures US\$140 Million Financing Package to Accelerate US Supply of Rare Earth Elements', 'url': 'https://www.morningstar.com/news/accesswire/1099371msn/tactical-resources-secures-us140-million-financing-package-to-accelerate-us-supply-of-rare-earth-elements', 'snippet': 'VANCOUVER, BC / ACCESS Newswire / November 10, 2025 / Tactical Resources Corp (TSX.V:RARE)(OTC:USREF) ("Tactical" or the "Company"), a rare earth exploration and development company, today announced it has entered into a financing agreement (the "SEPA ...", 'source': 'www.morningstar.com'}, {'title': 'Graphite One Confirms Rare Earth Elements at Alaska Deposit', 'url': 'https://www.nasdaq.com/articles/graphite-one-confirms-rare-earth-elements-alaska-deposit', 'snippet': 'Graphite One (TSXV:GPH, OTCQX:GPHOF) announced on November 13 that it has identified rare earth elements (REEs) at its Graphite Creek deposit, located north of Nome, Alaska. "The presence of two Defense Production Act Title III materials — graphite and ...", 'source': 'www.nasdaq.com'}, {'title': 'Round Top rare earth elements project, US - update', 'url': 'https://www.miningweekly.com/article/round-top-rare-earth-elements-project-us-update-2025-12-12', 'snippet': 'The pilot process plant will be built in Wheat Ridge, Colorado, in the US, to separate and purify r'}

6. Results: step_4

[{'title': "Trump's push for Greenland mineral rights could block China's access to rare earths", 'url': 'https://www.msn.com/en-us/money/markets/trumps-push-for-greenland-mineral-rights-could-block-chinas-access-to-rare-earths/ar-AA1UOTrN', 'snippet': 'Greenland has the eighth-largest rare earth reserves in the world at 1.5 million metric tons, according to 2024 data from the U.S. Geological Survey.', 'source': 'www.msn.com'}, {'title': "Trump administration invests in another US rare earth miner to loosen China's grip on supply", 'url': 'https://apnews.com/article/usa-rare-earth-trump-commerce-4c012d70ad172f12d9e3aca24508e766', 'snippet': 'The U.S. is taking a minority stake in an Oklahoma rare earth miner, the latest government investment in the sector as it seeks to minimize its reliance on imports of a material used prevalently in smartphones.', 'source': 'apnews.com'}, {'title': "Why Trump's Greenland focus could break China's grip on AI-critical minerals", 'url': 'https://www.msn.com/en-us/news/world/why-trump-s-greenland-focus-could-break-china-s-grip-on-ai-critical-minerals/ar-AA1UGF8x', 'snippet': 'Greenland's reserves of rare earth minerals rank as the world's eighth largest and nearly equal those of the U.S., according to the U.S. Geological Survey.', 'source': 'www.msn.com'}, {'title': "Why Trump's Greenland ambitions won't quickly solve America's rare earth gap", 'url': 'https://www.msn.com/en-us/news/world/why-trump-s-greenland-ambitions-won-t-quickly-solve-america-s-rare-earth-gap/ar-AA1U4P3E', 'snippet': "President Donald Trump has once again raised the prospect of the United States taking", 'source': 'www.msn.com'}, {'title': "Trump quietly wins big from Greenland as its ice rapidly melts", 'url': 'https://www.msn.com/en-us/news/world/trump-quietly-wins-big-from-greenland-as-its-ice-rapidly-melts/ar-A1UBEY8', 'snippet': "As the ice sheet covering Greenland thins and retreats, the island's once theoretical mineral wealth is turning into something that can be mapped, drilled and shipped."}, {"title": "President Donald Trump, who has dismissed global warming as a hoax,", "source": "www.msn.com"}, {"title": "Trump's Greenland takeover would require 'billions upon billions' spent over decades for a mineral industry that doesn't yet exist, experts say", "url": ""}, {"title": "https://www.yahoo.com/news/articles/trump-greenland-takeover-require-billions-194636771.html", "snippet": "Add Yahoo as a preferred source to see more of our stories on Google. When President Donald Trump entered his second term, he renewed his 2019 vow to take over Greenland. But what started as a seemingly quixotic proposal to purchase the Arctic island has ...", "source": ""}]

'www.yahoo.com'}, {'title': "Trump's Greenland gambit puts China on edge after Venezuela operation", 'url': 'https://www.cnbc.com/2026/01/08/us-trump-china-greenland-denmark-arctic-tension-s-trump-rare-earth-elements-minerals-mining.html', 'snippet': "Trump's Greenland push sharpens U.S.-China tensions as Beijing warned

7. Results: step_5

[{'title': "Europe neglected Greenland's mineral wealth. It may regret it.", 'url': 'https://www.politico.eu/article/europe-neglect-greenland-mineral-wealth-regret/', 'snippet': "As Trump threatens to take Greenland by force, Europe's failure to mine the icebound Danish territory looks increasingly like a mistake.", 'source': 'www.politico.eu'}, {'title': 'Uranium Ban Repeal in Greenland Could Revive Massive Rare Earth Project, Licence Holder Says', 'url': 'https://money.usnews.com/investing/news/articles/2025-02-11/uranium-ban-repeal-in-greenland-could-revive-massive-rare-earth-project-licence-holder-says', 'snippet': "NUUK, Greenland (Reuters) - The mining company that owns the licence to Greenland's Kvanefjeld deposit is hopeful that a new government will repeal a ban on uranium mining after next month's election, potentially rejuvenating one of the world's largest ...", 'source': 'money.usnews.com'}, {'title': "Trump's push for Greenland mineral rights could block China's access to rare earths", 'url': 'https://www.msn.com/en-us/money/markets/trumps-push-for-greenland-mineral-rights-could-block-chinas-access-to-rare-earths/ar-AA1UOTrN', 'snippet': "Greenland has the eighth-largest rare earth reserves in the world at 1.5 million metric tons, according to 2024 data from the U.S. Geological Survey.", 'source': 'www.msn.com'}, {'title': 'Kvanefjeld rare earths project, Greenland - update', 'url': 'https://www.miningweekly.com/article/kvanefjeld-rare-earths-project-greenland-update-2025-10-31', 'snippet': "The project is underpinned by the world's biggest code-compliant rare earths resource. The outcomes of a feasibility study in 2016 demonstrated the potential of the project to be developed as a large-scale, low-cost producer of rare earths. It envisaged ...", 'source': 'www.miningweekly.com'}, {'title': "Australia's Energy Transition files claim for Greenland rare earth project licence", 'url': 'https://www.nasdaq.com/articles/australias-energy-transition-files-claim-for-greenland-rare-earth-project-licence-0', 'snippet': "July 20 (Reuters) - Australia's Energy Transition Minerals ETM.AX said on Thursday it filed a statement of claims with an arbitration tribunal in Copenhagen to decide on its unit's legal right to be granted an exploitation licence for the Kvanefjeld ...", 'source': 'www.nasdaq.com'}, {'title': "Why Greenland's vast natural resources won't necessarily translate into huge profits", 'url': 'https://theconversation.com/why-greenlands-vast-natural-resources-wont-necessarily-translate-into-huge-profits-273137', 'snippet': "The EU's 2024 Critical Raw Materials Act seeks to improve European supply security of these, and both Trump and the EU want to weaken Chinese dominance in the trade. Meanwhile, vast reserves of oil are found offshore across eastern and western Greenland.", 'source': 'theconversation.com'}, {'title': 'Greenland Minerals dealt setback in legal fight for rare earth project licence', 'url': 'https://www.nasdaq.com/art