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Strait Of Hormuz Tensions Expose Fragility In Asia's Helium-Dependent Manufacturing Base As Transit Restrictions Risk Irreversible Cargo Loss

Unlike hydrocarbons, helium cannot be stored indefinitely in transit. Transported as a cryogenic liquid, it must be maintained near absolute zero (-269 °C) in specialised containers that are inherently time-limited. Once a critical cargo like helium becomes contestable in transit, whether through delay, diversion or interception, the consequences are immediate. Containers are insulated but not refrigerated, meaning boil-off begins immediately and progressively depletes the cargo, with most containers having a practical transit window of roughly 35 to 48 days.

Recent developments across the Strait of Hormuz and the Gulf of Oman, including tightening transit conditions and increased military oversight, are impeding the transportation of critical cargo including helium, adding friction to a supply chain already highly concentrated within the conflict zone. Qatar, a key global supplier, previously routed a significant share of its helium through this corridor, much of it bound for Asia's import-dependent manufacturing base.

Under pre-war conditions, an estimated 30 - 35% of global helium supply transited the Strait of Hormuz, a route now clearly exposed as both highly concentrated and physically vulnerable. Compounding this, on April 14, 2026, Russia announced temporary export controls on helium through to the end of 2027, aimed at preserving domestic supply and limiting exports outside of the Eurasian Economic Union (Republic of Armenia, the Republic of Belarus, the Republic of Kazakhstan, the Kyrgyz Republic and the Russian Federation). Taken together, helium availability across Asia and Europe is expected to remain constrained, as demand continues to accelerate particularly across Asia's import-reliant manufacturing base, with broader implications for the global technology ecosystem.

In China, supply chains are already showing signs of strain, with high-grade helium prices rising sharply as manufacturers struggle to secure reliable volumes, while U.S. technology leaders such as Nvidia and AMD, though not directly affected by the new Russian restrictions, remain exposed through derived reliance on Asian manufacturing.

This dynamic underscores a broader reality: the continued development and production of advanced technologies depend on stable access to the materials that underpin them. Among these is helium, a critical and irreplaceable input in semiconductor manufacturing, essential to technologies ranging from mobile phones and laptops to advanced military systems, satellites and healthcare. In this context, investors and policymakers aligned with scalable, secure and jurisdictionally stable supply are increasingly well positioned as the global threat profile continues to evolve.

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