

THE HIDDEN COST OF CHEAP SILICONE

Why America's Dependence on Chinese Silicone Sheeting Is a Supply Chain Risk We Can No Longer Ignore

Prepared by ElastaPro | March 2026 | Market Intelligence Brief

Executive Summary

March 2026 trade data confirms what procurement professionals should already be asking: the United States has allowed itself to become deeply dependent on Chinese-manufactured silicone sheeting — a critical industrial material used in sealing, gasketing, insulation, food processing, medical devices, and aerospace applications. China now controls **45.8% of all U.S. sheet rubber imports**, a share that grew 2.4% in a single month even as overall Chinese goods imports declined. This brief presents the data and makes the case that this dependency is not just a procurement risk — it is a national economic and strategic vulnerability.

45.8% China's share of U.S. sheet rubber imports (Feb 2026)	+2.4% Month-over-month share gain for China (Jan → Feb)	130%+ Price premium of U.S.-made vs. Chinese silicone (\$/KG)	41 mos. Consecutive months of China producer price deflation
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1. The Price Gap Is Real — And It Is Being Engineered

Current pricing data places North American silicone at **\$5.71/KG** with no month-over-month change, while Northeast Asian (predominantly Chinese) silicone sits at **\$2.47/KG**. That is a gap of more than 130%. On its face, the purchasing argument appears straightforward. But the data tells a more troubling story about how that gap is sustained.

China's producer prices have been **negative for 41 consecutive months** — the longest deflationary streak in recent memory. In February 2026 alone, Chinese producer prices fell 0.9% year-over-year. This is not the natural result of efficiency. It reflects a combination of state-subsidized overcapacity, suppressed labor costs, and a deliberate strategy to maintain price competitiveness in export markets — including the U.S. The effect is to make domestic production of silicone sheeting look economically unviable to buyers focused solely on unit cost.

Meanwhile, U.S. producer prices rose **3.4% year-over-year** in February — driven by legitimate market forces: rising raw material costs, labor, energy, and compliance. American manufacturers are competing on a field that is not level, and the gap will not close on its own.

2. Tariff Protection Is Shakier Than It Looks

Many buyers assume that existing IEEPA tariffs provide a sufficient buffer against Chinese price advantages. Current trade data undermines that assumption — China is gaining sheet rubber market share *despite* tariffs being in place. More urgently, a potential IEEPA tariff refund mechanism (the CAPE system) is actively being built by U.S. Customs and Border Protection and could be ready to accept claims within weeks of this report's publication.

If Chinese importers receive retroactive duty refunds, it will retroactively reduce their landed cost and signal that the tariff floor is negotiable. Procurement teams building cost models around tariff protection should treat that assumption as unstable. Sourcing decisions made today on the basis of tariff-adjusted pricing could look very different by Q3 2026.

Tariff Risk Alert: The CAPE refund system is ~70% complete. If IEEPA tariff refunds are issued to Chinese importers, it will retroactively lower their cost basis and narrow the competitive case for domestic sourcing. Do not build a multi-year supply strategy on a tariff floor that may not hold.

3. Geopolitical Risk: Reliance on a Strategic Competitor

Silicone sheeting is not a commodity with easy substitutes on short notice. It is a precision-grade industrial material specified into designs, assembly processes, and regulatory submissions. When a supply disruption occurs, the cost is not just the price difference — it is line shutdowns, failed audits, and lost contracts. The March 2026 environment illustrates exactly how quickly supply chains can be stressed:

- The U.S./Israel–Iran conflict has introduced new instability into Gulf shipping lanes, with ocean carriers already implementing emergency fuel surcharges of \$200–\$500 per 40-foot container.
- Truckload spot rates have hit their highest level since April 2022, driven in part by import surge activity — adding domestic distribution cost pressure on top of ocean freight.
- Schedule reliability for ocean freight from Asia remains structurally compromised post-pandemic, making on-time delivery from Chinese suppliers inherently less predictable than domestic fulfillment.
- China's manufacturing output has rebounded strongly (PMI expanding), meaning Chinese producers have pricing leverage — not just low costs — entering the second half of 2026.

The strategic calculus is clear: the more concentrated U.S. industrial silicone sourcing becomes in a single non-allied country, the more leverage that country holds over American manufacturers' ability to operate. This is not a theoretical concern. It is the exact vulnerability that disrupted semiconductor, pharmaceutical, and personal protective equipment supply chains during prior crises — and silicone sheeting is next if current trends continue.

4. The True Cost of "Cheap": What the Price Tag Doesn't Show

The \$2.47/KG price of Chinese silicone does not include the following costs that buyers routinely underestimate or exclude from procurement decisions:

Hidden Cost Factor	Impact
Ocean freight + fuel surcharges (rising late March 2026)	Adds \$0.30–\$0.80/KG equivalent depending on order size and routing
Lead time: 74–94 days port-to-port from Northeast Asia	Requires safety stock carrying costs and limits responsiveness to demand changes
Tariff uncertainty (IEEPA refund outcome still undecided)	Cost modeling risk; potential floor collapse or sudden reinstatement
Currency fluctuation (USD on downward trend in 2026)	Weaker dollar increases cost of imports in dollar terms through year-end
Quality audit, compliance & specification conformance	FDA, NSF, MIL-spec, UL requirements often require domestic-source documentation
Supply disruption risk (geopolitical, logistics, weather)	Single-source Asia dependency with no domestic backup = full exposure

5. The Domestic Case: Why ElastaPro

ElastaPro manufactures silicone sheeting in the United States. That is not a marketing tagline — it is a supply chain architecture decision with measurable operational advantages:

- **Lead time:** Domestic production and fulfillment in days, not 74–94 days from a Chinese port. No ocean freight, no customs holds, no fuel surcharge exposure.
- **Compliance-ready:** U.S.-manufactured product supports Buy American requirements, defense procurement specifications, FDA food-contact applications, and traceability documentation that import-chain products routinely cannot provide.
- **Price stability:** Our cost structure is tied to U.S. raw material and labor markets — not to the Yuan, Chinese state production quotas, or Asian freight volatility.
- **No tariff risk:** Domestic product is immune to IEEPA tariff swings in either direction. Your cost model is stable regardless of how the CIT rules on refunds.
- **Supply resilience:** A domestic supplier is a phone call, not a shipping container. When your line needs material next week, that matters more than the per-KG price.
- **U.S. economic impact:** Every dollar spent with ElastaPro stays in the U.S. economy — supporting domestic manufacturing jobs, tax revenues, and industrial capability that cannot be rebuilt quickly once lost to foreign competition.

The question isn't whether Chinese silicone is cheaper per kilogram today. The question is what it costs when it isn't available — or when the rules change overnight.

Ready to reduce your China silicone exposure?

Contact ElastaPro to discuss your silicone sheeting requirements, lead time needs, and a total-cost-of-ownership comparison for your specific application.

ElastaPro

s.kearns@elastapro.com

www.elastapro.com

U.S.-Made Silicone Sheeting

Data sources: GCP Industrial Products Trade Report, March 2026; ISM Prices Index; ICE U.S. Dollar Index. Pricing data reflects North American and Northeast Asian market averages as reported in the GCP Trade Report. This document was prepared by ElastaPro for informational and marketing purposes. ElastaPro is a U.S. manufacturer of silicone sheeting products.