



High-Temperature Tariff Costs for Melt-Draw Tapered Types

Article Overview

Melt-draw tapered types, such as high-temperature steel or aluminum components, are subject to Section 232 tariffs ranging from 10% to 50% of the full customs value, depending on metal content and product type.

Current Tariff Framework

As of 2026, Section 232 tariffs on steel, aluminum, and copper have been updated to apply to the full customs value of imported articles, rather than just the metal content . This means that high-temperature melt-draw tapered products, including tapered roller bearings or similar components, are assessed tariffs based on the total value of the finished product. The rates are categorized as follows:

- o 50% tariff: Products made entirely or almost entirely of steel, aluminum, or copper.
- o 25% tariff: Finished or semi-finished products substantially made of these metals, which is common for industrial machinery or high-temperature bearings.
- o 15% tariff: Certain metal-intensive industrial machinery and electrical equipment, temporarily reduced through 2027 .

Derivative Product Considerations

A narrow exemption exists for derivative articles manufactured abroad but using U.S.-origin metals that were "melted and poured" (steel) or "smelted and cast" (aluminum). If properly documented, these products may avoid the 25% Section 232 tariff . However, this exemption:

- o Applies only to new derivative articles added to Section 232 in 2025.
- o Requires robust supply chain documentation and traceability.
- o Does not apply to primary metals or derivatives covered by earlier proclamations .

Compliance and Classification

Importers must ensure accurate HTS classification and declare the metal content correctly, as tariffs are now based on the full entered value. Misclassification or incomplete documentation can result in penalties . For products like tapered roller bearings, the essential component rule applies: if the main component is subject to Section 232 duties, the entire set may be subject to the additional ad valorem duty .

Practical Implications

- o High-temperature melt-draw tapered types are likely to fall into the 25% or 50% tariff categories due to their

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substantial metal content.

- o Supply chain planning is critical: sourcing U.S.-origin metals or qualifying for derivative exemptions can reduce costs.
- o Tariff engineering may be considered, but only if modifications are genuine and compliant with customs law . In summary, importing high-temperature melt-draw tapered products into the U.S. involves significant Section 232 tariffs, with rates depending on metal content and product classification. Careful documentation, potential use of derivative exemptions, and compliance with HTS rules are essential to manage costs effectively.

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How to comply: The new process for complying with the updated Section 232 tariffs on steel and aluminum imports involves closely

Looking for a manufacturing partner who understands the nuances of derivative product tariffs and can help you

In this article, we quantify the costs and benefits of tariffs based on a modern trade model. This model predicts that in the case of

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Harmonized Tariff Schedule of the United States Revision 30 (2025) Annotated for Statistical Reporting Purposes GN p.3 General

The 2025 changes to Section 232 tariffs have significantly tightened the screws on importers of steel and aluminum.

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President Donald Trump has launched a wave of Section 232 tariffs and investigations, seeking to protect U.S.

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Provided below is a status update and summary of tariffs that have been implemented since February 1, 2025, and

Here, we show that PEfilms (or filaments) can al be o"melt drawn" in the temperature window 130-160 ~ thus yielding oriented

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