

Harmonized Tariff Schedule of the United States (2019)

Annotated for Statistical Reporting Purposes

CHAPTER 81

OTHER BASE METALS; CERMETS; ARTICLES THEREOF

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Subheading Note

1. Note 1 to chapter 74, defining "bars and rods", "profiles", "wire", and "plates, sheets, strip and foil" applies, mutatis mutandis, to this chapter.

Additional U.S. Notes

1. Alloys of each of the base metals provided for in chapter 81 are metals in which the content of the respective base metal is, by weight, less than 99 percent, but not less than any other metallic element.
2. For the purposes of subheading 8108.90.60, the rate of duty "Free (C)" appearing in the "Special" subcolumn applies only to tubes and pipes with attached fittings, suitable for conducting gases or liquids.

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|---|------------------------|--------------------|--|-----|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8101 | | Tungsten (wolfram) and articles thereof, including waste and scrap: | | | | |
| 8101.10.00 | 00 | Powders..... | kg..... W kg | 7% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 58% |
| 8101.94.00 | 00 | Other: Unwrought tungsten, including bars and rods obtained simply by sintering..... | kg..... | 6.6% ^{1/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60% |
| 8101.96.00 | 00 | Wire..... | kg..... | 4.4% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60% |
| 8101.97.00 | 00 | Waste and scrap..... | kg..... W kg | 2.8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 50% |
| 8101.99 | | Other: | | | | |
| 8101.99.10 | 00 | Bars and rods, other than those obtained simply by sintering, profiles, plates, sheets, strip and foil..... | kg..... | 6.5% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60% |
| 8101.99.80 | 00 | Other..... | kg..... | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|--|------------------------|---|--|--|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8102 | | Molybdenum and articles thereof, including waste and scrap: | | | | |
| 8102.10.00 | 00 | Powders..... | kg..... Mo kg | 9.1¢/kg on molybdenum content + 1.2% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | \$1.10/kg on molybdenum content + 15% |
| 8102.94.00 | 00 | Other: Unwrought molybdenum, including bars and rods obtained simply by sintering..... | kg..... Mo kg | 13.9¢/kg on molybdenum content + 1.9% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | \$1.10/kg on molybdenum content + 15% |
| 8102.95 | | Bars and rods, other than those obtained simply by sintering, profiles, plates, sheets, strip and foil: | | | | |
| 8102.95.30 | 00 | Bars and rods..... | kg..... | 6.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60% |
| 8102.95.60 | 00 | Other..... | kg..... | 6.6% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60% |
| 8102.96.00 | 00 | Wire..... | kg..... | 4.4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60% |
| 8102.97.00 | 00 | Waste and scrap..... | kg..... Mo kg | Free | | Free |
| 8102.99.00 | 00 | Other..... | kg..... | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8103 | | Tantalum and articles thereof, including waste and scrap: | | | | |
| 8103.20.00 | | Unwrought tantalum, including bars and rods obtained simply by sintering; powders..... | | 2.5% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| | 30 | Powders..... | kg | | | |
| | 90 | Other..... | kg | | | |
| 8103.30.00 | 00 | Waste and scrap..... | kg..... | Free | | Free |
| 8103.90.00 | 00 | Other..... | kg..... | 4.4% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|---|------------------------|---|--|--|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8104 | | Magnesium and articles thereof, including waste and scrap: | | | | |
| 8104.11.00 | 00 | Unwrought magnesium: Containing at least 99.8 percent by weight of magnesium..... | kg..... | 8% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 100% |
| 8104.19.00 | 00 | Other..... | kg..... Mg kg | 6.5% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60.5% |
| 8104.20.00 | 00 | Waste and scrap..... | kg..... | Free | | Free |
| 8104.30.00 | 00 | Raspings, turnings and granules, graded according to size; powders..... | kg..... Mg kg | 4.4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 60.5% |
| 8104.90.00 | 00 | Other..... | kg..... Mg kg | 14.8¢/kg on magnesium content + 3.5% ^{2/} | Free (A, AU, B, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 88¢/kg on magnesium content + 20% |
| 8105 | | Cobalt mattes and other intermediate products of cobalt metallurgy; cobalt and articles thereof, including waste and scrap: | | | | |
| 8105.20 | | Cobalt mattes and other intermediate products of cobalt metallurgy; unwrought cobalt; powders: | | | | |
| 8105.20.30 | 00 | Unwrought cobalt: Alloys..... | kg..... | 4.4% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8105.20.60 | 00 | Other..... | kg..... | Free ^{2/} | | Free |
| 8105.20.90 | 00 | Other..... | kg..... | Free ^{2/} | | Free |
| 8105.30.00 | 00 | Waste and scrap..... | kg..... | Free ^{2/} | | Free |
| 8105.90.00 | 00 | Other..... | kg..... | 3.7% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8106.00.00 | 00 | Bismuth and articles thereof, including waste and scrap..... | kg..... | Free ^{2/} | | 7.5% |
| 8107 | | Cadmium and articles thereof, including waste and scrap: | | | | |
| 8107.20.00 | 00 | Unwrought cadmium; powders..... | kg..... | Free ^{2/} | | 33¢/kg |
| 8107.30.00 | 00 | Waste and scrap..... | kg..... | Free ^{2/} | | 33¢/kg |
| 8107.90.00 | 00 | Other..... | kg..... | 4.4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|--|------------------------|--------------------|--|---------|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8108 | | Titanium and articles thereof, including waste and scrap: | | | | |
| 8108.20.00 | | Unwrought titanium; powders..... | kg | 15% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| | 10 | Sponge..... | kg | | | |
| | | Other: | | | | |
| | 15 | Powders..... | kg | | | |
| | 30 | Ingots..... | kg | | | |
| | 95 | Other..... | kg | | | |
| 8108.30.00 | 00 | Waste and scrap..... | kg | Free ^{2/} | | Free |
| 8108.90 | | Other: | | | | |
| 8108.90.30 | | Articles of titanium..... | kg | 5.5% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | 30 | Castings..... | kg | | | |
| | 60 | Other..... | kg | | | |
| 8108.90.60 | | Other..... | kg | 15% ^{2/} | Free (A, AU, BH, C, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) ^{3/} | 45% |
| | 20 | Blooms, sheet bars, and slabs..... | kg | | | |
| | 31 | Other bars, rods, profiles and wire..... | kg | | | |
| | 45 | Plates, sheets, strips and foil..... | kg | | | |
| | 60 | Tubes and pipes..... | kg | | | |
| | 75 | Other..... | kg | | | |
| 8109 | | Zirconium and articles thereof, including waste and scrap: | | | | |
| 8109.20.00 | 00 | Unwrought zirconium; powders..... | kg | 4.2% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8109.30.00 | 00 | Waste and scrap..... | kg | Free ^{2/} | | Free |
| 8109.90.00 | 00 | Other..... | kg | 3.7% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8110 | | Antimony and articles thereof, including waste and scrap: | | | | |
| 8110.10.00 | 00 | Unwrought antimony; powders..... | kg | Free | | 4.4¢/kg |
| 8110.20.00 | 00 | Waste and scrap..... | kg | Free | | 4.4¢/kg |
| 8110.90.00 | 00 | Other..... | kg | Free | | 4.4¢/kg |

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|---|------------------------|--------------------|--|------|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8111.00 | | Manganese and articles thereof, including waste and scrap: | | | | |
| 8111.00.30 | 00 | Waste and scrap..... | kg..... | Free | | Free |
| | | Other: | | | | |
| | | Unwrought manganese: | | | | |
| 8111.00.47 | 00 | Flake containing at least 99.5 percent by weight manganese..... | kg..... | 14% | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| 8111.00.49 | | Other..... | | 14% | Free (A+, AU, BH, CA, CL, CO, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 20% |
| | 10 | Powder containing at least 99.5 percent by weight manganese..... | kg | | | |
| | 90 | Other..... | kg | | | |
| 8111.00.60 | 00 | Other..... | kg..... | 3.7% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8112 | | Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap: | | | | |
| | | Beryllium: | | | | |
| 8112.12.00 | 00 | Unwrought; powders..... | kg..... | 8.5% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.13.00 | 00 | Waste and scrap..... | kg..... | Free ^{2/} | | Free |
| 8112.19.00 | 00 | Other..... | kg..... | 5.5% ^{2/} | Free (A*, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| | | Chromium: | | | | |
| 8112.21.00 | 00 | Unwrought; powders..... | kg..... | 3% | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| 8112.22.00 | 00 | Waste and scrap..... | kg..... | Free | | Free |
| 8112.29.00 | 00 | Other..... | kg..... | 3% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 30% |
| | | Thallium: | | | | |
| 8112.51.00 | 00 | Unwrought; powders..... | kg..... | 4% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.52.00 | 00 | Waste and scrap..... | kg..... | Free ^{2/} | | Free |

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|--|------------------------|------------------|---|-----|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8112 (con.) | | Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap: (con.) Thallium: (con.) | | | | |
| 8112.59.00 | 00 | Other..... | kg..... | 4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |

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| Heading/ Subheading | Stat. Suf- fix | Article Description | Unit of Quantity | Rates of Duty | | |
|------------------------|----------------------|--|------------------------|--------------------|--|------|
| | | | | 1 | | 2 |
| | | | | General | Special | |
| 8112 (con.) | | Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap: (con.) Other: | | | | |
| 8112.92 | | Unwrought; waste and scrap; powders: | | | | |
| 8112.92.06 | 00 | Waste and scrap..... | kg..... | Free ^{2/} | | Free |
| 8112.92.10 | 00 | Other: Gallium..... | kg..... | 3% ^{4/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.92.20 | 00 | Hafnium..... | kg..... | Free ^{2/} | | 25% |
| 8112.92.30 | 00 | Indium..... | kg..... | Free | | 25% |
| 8112.92.40 | 00 | Niobium (columbium)..... | kg..... | 4.9% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.92.50 | 00 | Rhenium..... | kg..... | 3% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.92.60 | 00 | Germanium: Unwrought..... | kg..... | 2.6% ^{5/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.92.65 | 00 | Other..... | kg..... | 4.4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8112.92.70 | 00 | Vanadium..... | kg..... V kg | 2% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.99 | | Other: | | | | |
| 8112.99.10 | 00 | Germanium..... | kg..... | 4.4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8112.99.20 | 00 | Vanadium..... | kg..... V kg | 2% ^{2/} | Free (A+, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 25% |
| 8112.99.90 | 00 | Other..... | kg..... | 4% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |
| 8113.00.00 | 00 | Cermets and articles thereof, including waste and scrap..... | kg..... | 3.7% ^{2/} | Free (A, AU, BH, CA, CL, CO, D, E, IL, JO, KR, MA, MX, OM, P, PA, PE, SG) | 45% |

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Endnotes--page 81 - 9

1/ See 9902.15.11.

2/ See 9903.88.03.

3/ See additional U.S. note 2 to this chapter.

4/ See 9902.15.12 and 9903.88.03.

5/ See 9902.15.13 and 9902.15.14.