

CHAPTER 81  
OTHER BASE METALS; CERMETS; ARTICLES THEREOF

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.

|            |   |   |          |                                       |  |                                       |     |  |
|------------|---|---|----------|---------------------------------------|--|---------------------------------------|-----|--|
| 8101       | Tungsten (wolfram) and articles thereof, including waste and scrap: |   |          |                                       |  |                                       |     |  |
| 8101.10.00 | 00 9  | Powders.....  | kg.....v | 10.5%                                 | Free (E,IL)                                | 58%                                   |     |  |
|            |   | tungsten content..  | kg       |                                       | 8.4% (CA)                                  |                                       |     |  |
| 8101.91    |   | Other:  |          |                                       |  |                                       |     |  |
|            |   | Unwrought tungsten, including bars and rods obtained simply by sintering; waste and scrap:                  |          |                                       |  |                                       |     |  |
| 8101.91.10 | 00 9  | Waste and scrap.....  | kg.....v | 4.2%                                  | Free (A,E,IL)                              | 50%                                   |     |  |
|            |   | tungsten content..  | kg       |                                       | 3.3% (CA)                                  |                                       |     |  |
| 8101.91.50 | 00 0  | Unwrought.....  | kg.....  | 6.6%                                  | Free (E,IL)                                | 60%                                   |     |  |
|            |   |   |          |                                       | 5.2% (CA)                                  |                                       |     |  |
| 8101.92.00 | 00 0  | Bars and rods, other than those obtained simply by sintering, profiles, plates, sheets, strip and foil..... |          | kg.....                               | 6.5%                                       | Free (E,IL)                           | 60% |  |
|            |   |   |          |                                       | 5.2% (CA)                                  |                                       |     |  |
| 8101.93.00 | 00 9  | Wire.....   | kg.....  | 6.5%                                  | Free (E,IL)                                | 60%                                   |     |  |
|            |   |   |          |                                       | 5.2% (CA)                                  |                                       |     |  |
| 8101.99.00 | 00 3  | Other.....  | kg.....  | 5.5%                                  | Free (A,E,IL)                              | 45%                                   |     |  |
|            |   |   |          |                                       | 4.4% (CA)                                  |                                       |     |  |
| 8102       | Molybdenum and articles thereof, including waste and scrap:         |   |          |                                       |  |                                       |     |  |
| 8102.10.00 | 00 8  | Powders.....  | kg.....v | 13.9¢/kg on molybdenum content + 1.9% | Free (E,IL)                                | \$1.10/kg on molybdenum content + 15% |     |  |
|            |   | molybdenum content..  | kg       |                                       | 11.1¢/kg on molybdenum content + 1.5% (CA) |                                       |     |  |
| 8102.91    |   | Other:  |          |                                       |  |                                       |     |  |
|            |   | Unwrought molybdenum, including bars and rods obtained simply by sintering; waste and scrap:                |          |                                       |  |                                       |     |  |
| 8102.91.10 | 00 8  | Unwrought.....  | kg.....v | 13.9¢/kg on molybdenum content + 1.9% | Free (E,IL)                                | \$1.10/kg on molybdenum content + 15% |     |  |
|            |   | molybdenum content..  | kg       |                                       | 11.1¢/kg on molybdenum content + 1.5% (CA) |                                       |     |  |
| 8102.91.50 | 00 9  | Waste and scrap.....  | kg.....v | Free                                  |  | Free                                  |     |  |
|            |   | molybdenum content..  | kg       |                                       |  |                                       |     |  |
| 8102.92.00 | 00 9  | Bars and rods, other than those obtained simply by sintering, profiles, plates, sheets, strip and foil..... |          | kg.....                               | 6.6%                                       | Free (A,E,IL)                         | 60% |  |
|            |   |   |          |                                       | 5.2% (CA)                                  |                                       |     |  |
| 8102.93.00 | 00 8  | Wire.....   | kg.....  | 6.6%                                  | Free (A,E,IL)                              | 60%                                   |     |  |
|            |   |   |          |                                       | 5.2% (CA)                                  |                                       |     |  |
| 8102.99.00 | 00 2  | Other.....  | kg.....  | 5.5%                                  | Free (A,E,IL)                              | 45%                                   |     |  |
|            |   |   |          |                                       | 4.4% (CA)                                  |                                       |     |  |
| 8103       | Tantalum and articles thereof, including waste and scrap:           |   |          |                                       |  |                                       |     |  |
| 8103.10    |   | Unwrought tantalum, including bars and rods obtained simply by sintering; waste and scrap; powders:         |          |                                       |  |                                       |     |  |
| 8103.10.30 | 00 1  | Waste and scrap.....  | kg.....  | Free                                  |  | Free                                  |     |  |
| 8103.10.60 |   | Other.....  |          | 3.7%                                  | Free (A,E,IL)                              | 25%                                   |     |  |
|            |   |   |          |                                       | 2.9% (CA)                                  |                                       |     |  |
|            | 30 8  | Powders.....  | kg       |                                       |  |                                       |     |  |
|            | 90 5  | Other.....  | kg       |                                       |  |                                       |     |  |
| 8103.90.00 | 00 0  | Other.....  | kg.....  | 5.5%                                  | Free (A,E,IL)                              | 45%                                   |     |  |
|            |   |   |          |                                       | 4.4% (CA)                                  |                                       |     |  |

|            |      |   |          |                                      |  |                                   |
|------------|------|---|----------|--------------------------------------|--|-----------------------------------|
| 8104       |      | Magnesium and articles thereof, including waste and scrap:  |          |                                      |  |                                   |
|            |      | Unwrought magnesium:  |          |                                      |  |                                   |
| 8104.11.00 | 00 5 | Containing at least 99.8 percent by weight of magnesium.....  | kg.....  | 8%                                   | Free (A,E,IL)<br>7.2% (CA)                                   | 100%                              |
| 8104.19.00 | 00 7 | Other.....  | kg.....v | 6.5%                                 | Free (E,IL)<br>5.8% (CA)                                     | 60.5%                             |
| 8104.20.00 | 00 4 | Waste and scrap.....  | kg.....  | Free                                 |  | Free                              |
| 8104.30.00 | 00 2 | Raspings, turnings and granules, graded according to size; powders.....   | kg.....v | 6.5%                                 | Free (E,IL)<br>5.8% (CA)                                     | 60.5%                             |
| 8104.90.00 | 00 9 | Other.....  | kg.....v | 14.8¢/kg on magnesium content + 3.5% | Free (A,B,E,IL)<br>13.3¢/kg on magnesium content + 3.1% (CA) | 88¢/kg on magnesium content + 20% |
| 8105       |      | Cobalt mattes and other intermediate products of cobalt metallurgy; cobalt and articles thereof, including waste and scrap: |          |                                      |  |                                   |
| 8105.10    |      | Cobalt mattes and other intermediate products of cobalt metallurgy; unwrought cobalt; waste and scrap; powders:             |          |                                      |  |                                   |
|            |      | Unwrought cobalt:   |          |                                      |  |                                   |
| 8105.10.30 | 00 9 | Alloys.....   | kg.....  | 5.5%                                 | Free (E,IL)<br>4.4% (CA) <u>1/</u>                           | 45%                               |
| 8105.10.60 | 00 2 | Other.....  | kg.....  | Free                                 |  | Free                              |
| 8105.10.90 | 00 6 | Other.....  | kg.....  | Free                                 |  | Free                              |
| 8105.90.00 | 00 8 | Other.....  | kg.....  | 5.5%                                 | Free (A,E,IL)<br>4.4% (CA)                                   | 45%                               |
| 8106.00.00 | 00 6 | Bismuth and articles thereof, including waste and scrap.....  | kg.....  | Free                                 |  | 7.5%                              |
| 8107       |      | Cadmium and articles thereof, including waste and scrap:  |          |                                      |  |                                   |
| 8107.10.00 | 00 3 | Unwrought cadmium; waste and scrap; powders...  | kg.....  | Free                                 |  | 33¢/kg                            |
| 8107.90.00 | 00 6 | Other.....  | kg.....  | 5.5%                                 | Free (A,E,IL)<br>4.4% (CA)                                   | 45%                               |
| 8108       |      | Titanium and articles thereof, including waste and scrap:   |          |                                      |  |                                   |
| 8108.10    |      | Unwrought titanium; waste and scrap; powders:   |          |                                      |  |                                   |
| 8108.10.10 | 00 0 | Waste and scrap.....  | kg.....  | Free                                 |  | Free                              |
| 8108.10.50 |      | Other.....  |          | 15%                                  | Free (E,IL)<br>12% (CA)                                      | 25%                               |
|            | 10 9 | Sponge.....   | kg       |                                      |  |                                   |
|            |      | Other:  |          |                                      |  |                                   |
|            | 15 4 | Powders.....  | kg       |                                      |  |                                   |
|            | 30 5 | Ingots.....   | kg       |                                      |  |                                   |
|            | 45 8 | Billets.....  | kg       |                                      |  |                                   |
|            | 60 8 | Blooms, sheet bars and slabs...   | kg       |                                      |  |                                   |
|            | 90 2 | Other.....  | kg       |                                      |  |                                   |
| 8108.90    |      | Other:  |          |                                      |  |                                   |
| 8108.90.30 |      | Articles of titanium.....   |          | 5.5%                                 | Free (A,E,IL)<br>4.9% (CA)                                   | 45%                               |
|            | 30 3 | Castings.....   | kg       |                                      |  |                                   |
|            | 60 6 | Other.....  | kg       |                                      |  |                                   |
| 8108.90.60 |      | Other.....  |          | 15%                                  | Free (A,C <u>2/</u> , E,IL)<br>13.5% (CA)                    | 45%                               |
|            | 30 6 | Bars, rods, profiles and wire.....  | kg       |                                      |  |                                   |
|            | 45 9 | Plates, sheets, strips and foil.....  | kg       |                                      |  |                                   |
|            | 60 9 | Tubes and pipes.....  | kg       |                                      |  |                                   |
|            | 75 2 | Other.....  | kg       |                                      |  |                                   |

1/ Duty on certain unwrought alloys of cobalt originating in the territory of Canada temporarily suspended. See subheading 9902.81.05.

2/ See additional U.S. Note 1

|            |      |   |          |      |                              |         |
|------------|------|---|----------|------|------------------------------|---------|
| 8109       |      | Zirconium and articles thereof, including waste and scrap:  |          |      |                              |         |
| 8109.10    |      | Unwrought zirconium; waste and scrap; powders:  |          |      |                              |         |
| 8109.10.30 | 00 5 | Waste and scrap.....  | kg.....  | Free |                              | Free    |
| 8109.10.60 | 00 8 | Other.....  | kg.....  | 4.2% | Free (E, IL)<br>3.3% (CA)    | 25%     |
| 8109.90.00 | 00 4 | Other.....  | kg.....  | 5.5% | Free (A, E, IL)<br>4.4% (CA) | 45%     |
| 8110.00.00 | 00 0 | Antimony and articles thereof, including waste and scrap.....   | kg.....  | Free |                              | 4.4¢/kg |
| 8111.00    |      | Manganese and articles thereof, including waste and scrap:  |          |      |                              |         |
| 8111.00.30 | 00 3 | Waste and scrap.....  | kg.....  | Free |                              | Free    |
| 8111.00.45 | 00 6 | Other:<br>Unwrought manganese.....  | kg.....  | 14%  | Free (E, IL)<br>12.6% (CA)   | 20%     |
| 8111.00.60 | 00 6 | Other.....  | kg.....  | 5.5% | Free (A, E, IL)<br>4.9% (CA) | 45%     |
| 8112       |      | Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap: |          |      |                              |         |
|            |      | Beryllium:  |          |      |                              |         |
| 8112.11    |      | Unwrought; waste and scrap; powders:  |          |      |                              |         |
| 8112.11.30 | 00 9 | Waste and scrap.....  | kg.....  | Free |                              | Free    |
| 8112.11.60 | 00 2 | Other.....  | kg.....  | 8.5% | Free (A, E, IL)<br>6.8% (CA) | 25%     |
| 8112.19.00 | 00 7 | Other.....  | kg.....  | 5.5% | Free (A, E, IL)<br>4.4% (CA) | 45%     |
| 8112.20    |      | Chromium:   |          |      |                              |         |
| 8112.20.30 | 00 8 | Waste and scrap.....  | kg.....  | Free |                              | Free    |
| 8112.20.60 | 00 1 | Other.....  | kg.....  | 3.7% | Free (A, E, IL)<br>2.9% (CA) | 30%     |
| 8112.30    |      | Germanium:  |          |      |                              |         |
| 8112.30.30 | 00 6 | Waste and scrap.....  | kg.....  | Free |                              | Free    |
| 8112.30.60 | 00 9 | Other:<br>Unwrought.....  | kg.....  | 3.7% | Free (A, E, IL)<br>2.9% (CA) | 25%     |
| 8112.30.90 | 00 3 | Other.....  | kg.....  | 5.5% | Free (A, E, IL)<br>4.4% (CA) | 45%     |
| 8112.40    |      | Vanadium:   |          |      |                              |         |
| 8112.40.30 | 00 4 | Waste and scrap.....  | kg.....v | Free |                              | Free    |
| 8112.40.60 | 00 7 | Other.....  | kg.....v | 3%   | Free (E, IL)<br>2.4% (CA)    | 25%     |
| 8112.91    |      | Other:<br>Unwrought; waste and scrap; powders:  |          |      |                              |         |
| 8112.91.05 | 00 3 | Waste and scrap.....  | kg.....  | Free |                              | Free    |
| 8112.91.10 | 00 6 | Other:<br>Gallium.....  | kg.....  | 3.7% | Free (E, IL)<br>2.9% (CA)    | 25%     |
| 8112.91.20 | 00 4 | Hafnium.....  | kg.....  | Free |                              | 25%     |
| 8112.91.30 | 00 2 | Indium.....   | kg.....  | Free |                              | 25%     |
| 8112.91.40 | 00 0 | Niobium (columbium).....  | kg.....  | 4.9% | Free (E, IL)<br>3.9% (CA)    | 25%     |
| 8112.91.50 | 00 7 | Rhenium.....  | kg.....  | 3.7% | Free (A, E, IL)<br>2.9% (CA) | 25%     |
| 8112.91.60 | 00 5 | Thallium.....   | kg.....  | 5.5% | Free (E, IL)<br>4.4% (CA)    | 25%     |
| 8112.99.00 | 00 0 | Other.....  | kg.....  | 5.5% | Free (A, E, IL)<br>4.4% (CA) | 45%     |
| 8113.00.00 | 00 7 | Cermets and articles thereof, including waste and scrap.....  | kg.....  | 5.5% | Free (A, E, IL)<br>4.4% (CA) | 45%     |