## Chapter 81 Other Base Metals; Cermets; Articles Thereof

| Commodity code | Duty expression | Notes | Description |
| --- | --- | --- | --- |
| **8100** |  |  | **OTHER BASE METALS; CERMETS; ARTICLES THEREOF** |
| **8101** |  |  | **Tungsten (wolfram) and articles thereof, including waste and scrap** |
| **8101 10 00 00** | 5.0% |  | **- Powders** |
|  |  |  | **- Other** |
| **8101 94 00 00** | 5.0% |  | - - Unwrought tungsten, including bars and rods obtained simply by sintering |
| **8101 96** |  |  | - - Wire |
| **8101 96 00 10** | 6.0% |  | - - - Tungsten wire containing by weight 99% or more of tungsten with: - a maximum cross-sectional dimension of not more than 50 µm - a resistance of 40 Ohm or more but not more than 300 Ohm at length of 1 metre of a kind used in the production of heated car front windows |
| **8101 96 00 20** |  |  | - - - Tungsten wire - containing by weight 99,95% or more of tungsten, and - with a maximum cross-sectional dimension of not more than 1.02 mm |
| **8101 96 00 90** |  |  | - - - Other |
| **8101 97 00 00** | 0.0% |  | - - Waste and scrap |
| **8101 99** |  |  | - - Other |
| **8101 99 10** |  |  | - - - Bars and rods, other than those obtained simply by sintering, profiles, plates, sheets, strip and foil |
| **8101 99 10 10** | 6.0% |  | - - - - Tungsten bars and rods for welding electrodes, containing 94% or more by weight of tungsten, whether or not cut to length |
| **8101 99 10 90** |  |  | - - - - Other |
| **8101 99 90 00** | 7.0% |  | - - - Other |
| **8102** |  |  | **Molybdenum and articles thereof, including waste and scrap** |
| **8102 10** |  |  | **- Powders** |
| **8102 10 00 10** | 4.0% |  | - - Molybdenum powder with - a purity by weight of 99% or more and - a particle size of 1,0 µm or more, but not more than 5,0 µm |
| **8102 10 00 90** |  |  | - - Other |
|  |  |  | **- Other** |
| **8102 94 00 00** | 3.0% |  | - - Unwrought molybdenum, including bars and rods obtained simply by sintering |
| **8102 95 00 00** | 5.0% |  | - - Bars and rods, other than those obtained simply by sintering, profiles, plates, sheets, strip and foil |
| **8102 96** |  |  | - - Wire |
|  |  |  | - - - Molybdenum wire, containing by weight at least 99,95% of molybdenum, of which the maximum cross-sectional dimension exceeds 1.35 mm but does not exceed 4.0 mm |
| **8102 96 00 11** | 6.1% |  | - - - - Consigned from Malaysia |
| **8102 96 00 19** |  |  | - - - - Other |
| **8102 96 00 20** |  |  | - - - Molybdenum wire, containing by weight at least 99,95 % of molybdenum, of which the maximum cross-sectional dimension exceeds 4.0 mm but does not exceed 11.0 mm |
| **8102 96 00 30** |  |  | - - - Molybdenum wire, containing by weight 97 % or more but less than 99,95 % of molybdenum, of which the maximum cross-sectional dimension exceeds 1.35 mm but does not exceed 4.0 mm |
| **8102 96 00 40** |  |  | - - - Molybdenum wire, containing by weight 97 % or more but less than 99,95 % of molybdenum, of which the maximum cross-sectional dimension exceeds 4.0 mm but does not exceed 11.0 mm |
| **8102 96 00 98** |  |  | - - - Other |
| **8102 97 00 00** | 0.0% |  | - - Waste and scrap |
| **8102 99 00 00** | 7.0% |  | - - Other |
| **8103** |  |  | **Tantalum and articles thereof, including waste and scrap** |
| **8103 20 00 00** | 0.0% |  | **- Unwrought tantalum, including bars and rods obtained simply by sintering; powders** |
| **8103 30 00 00** | 0.0% |  | **- Waste and scrap** |
| **8103 90** |  |  | **- Other** |
| **8103 90 10 00** | 3.0% |  | - - Bars and rods, other than those obtained simply by sintering, profiles, wire, plates, sheets, strip and foil |
| **8103 90 90** |  |  | - - Other |
| **8103 90 90 10** | 4.0% |  | - - - Tantalum sputtering target with: - a Copper-Chromium alloy backing plate, - a diameter of 312 mm, and - a thickness of 6.3 mm |
| **8103 90 90 90** |  |  | - - - Other |
| **8104** |  |  | **Magnesium and articles thereof, including waste and scrap** |
|  |  |  | **- Unwrought magnesium** |
| **8104 11 00 00** | 5.3% |  | - - Containing at least 99,8% by weight of magnesium |
| **8104 19 00 00** | 4.0% |  | - - Other |
| **8104 20 00 00** | 0.0% |  | **- Waste and scrap** |
| **8104 30** |  |  | **- Raspings, turnings and granules, graded according to size; powders** |
|  |  |  | - - Magnesium powder with a particle size of 0.2 mm or more but not more than 0.8 mm |
| **8104 30 00 20** | 4.0% |  | - - - Of purity by weight of 98% or more, but not more than 99,5% |
| **8104 30 00 35** |  |  | - - - of purity by weight of more than 99,5% |
| **8104 30 00 40** |  |  | - - - Other |
| **8104 30 00 90** |  |  | - - Other |
| **8104 90** |  |  | **- Other** |
| **8104 90 00 10** | 4.0% |  | - - Ground and polished magnesium sheets, of dimensions not more than 1500 mm x 2000 mm, coated on one side with an epoxy resin insensitive to light |
| **8104 90 00 90** |  |  | - - Other |
| **8105** |  |  | **Cobalt mattes and other intermediate products of cobalt metallurgy; cobalt and articles thereof, including waste and scrap** |
| **8105 20 00 00** | 0.0% |  | **- Cobalt mattes and other intermediate products of cobalt metallurgy; unwrought cobalt; powders** |
| **8105 30 00 00** | 0.0% |  | **- Waste and scrap** |
| **8105 90** |  |  | **- Other** |
| **8105 90 00 10** | 3.0% |  | - - Bars or wires made of cobalt alloy containing, by weight : - 35% (± 2%) cobalt, - 25% (± 1%) nickel, - 19% (± 1%) chromium and - 7% (± 2%) iron conforming to the material specifications AMS 5842, of a kind used in the aerospace industry |
| **8105 90 00 90** |  |  | - - Other |
| **8106** |  |  | **Bismuth and articles thereof, including waste and scrap** |
| **8106 00 10 00** | 0.0% |  | **- Unwrought bismuth; waste and scrap; powders** |
| **8106 00 90 00** | 2.0% |  | **- Other** |
| **8107** |  |  | **Cadmium and articles thereof, including waste and scrap** |
| **8107 20 00 00** | 3.0% |  | **- Unwrought cadmium; powders** |
| **8107 30 00 00** | 0.0% |  | **- Waste and scrap** |
| **8107 90 00 00** | 4.0% |  | **- Other** |
| **8108** |  |  | **Titanium and articles thereof, including waste and scrap** |
| **8108 20** |  |  | **- Unwrought titanium; powders** |
| **8108 20 00 10** | 5.0% |  | - - Titanium sponge |
| **8108 20 00 30** |  |  | - - Titanium powder of which 90% by weight or more passes through a sieve with an aperture of 0.224 mm |
| **8108 20 00 40** |  |  | - - Titanium alloy ingot, - with a height of 17.8 cm or more, a length of 180 cm or more and a width of 48,3cm or more, - a weight of 680 kg or more, containing alloy elements by weight of:: - 3% or more but not more than 6% of aluminium - 2,5% or more but not more than 5% of tin - 2,5% or more but not more than 4,5% of zirconium - 0,2% or more but not more than 1% of niobium - 0,1% or more but not more than 1% of molybdenum 0,1% or more but not more than 0,5% of silicon |
| **8108 20 00 55** |  |  | - - Titanium alloy ingot, - with a height of 17.8 cm or more, a length of 180 cm or more, a width of 48.3 cm or more - a weight of 680 kg or more, containing alloy elements by weight of: - 3% or more but not more than 7% of aluminium, - 1% or more but not more than 5% of tin, - 3% or more but not more than 5% of zirconium, - 4% or more but not more than 8% of molybdenum |
| **8108 20 00 60** |  |  | - - Titanium alloy ingot, - with a diameter of 63.5 cm or more and a length of 450 cm or more, - a weight of 6350 kg or more, containing alloy elements by weight of: - 5,5% or more but not more than 6,7% of aluminium, - 3,7% of more but not more than 4,9% of vanadium |
| **8108 20 00 70** |  |  | - - Titanium alloy slab, with - a height of 20.3 cm or more, but not more than 23.3 cm, - a length of 246.1 cm or more, but not more than 289.6 cm, - a width of 40.6 cm or more, but not more than 46.7 cm, - a weight of 820 kg or more but not more than 965 kg, containing alloy elements by weight of: - 5,2% or more but not more than 6,2% of aluminium, - 2,5% or more but not more than 4,8% of vanadium |
| **8108 20 00 90** |  |  | - - Other |
| **8108 30** |  |  | **- Waste and scrap** |
| **8108 30 00 10** | 5.0% |  | - - Waste and scrap of titanium and titanium alloys, except those containing by weight 1% or more but not more than 2% of aluminium |
| **8108 30 00 90** |  |  | - - Other |
| **8108 90** |  |  | **- Other** |
| **8108 90 30** |  |  | - - Bars, rods, profiles and wire |
| **8108 90 30 10** | 7.0% |  | - - - Titanium alloy rods complying with standard EN 2002-1, EN 4267 or DIN 65040 |
| **8108 90 30 15** |  |  | - - - Rods and wire of an alloy of titanium with: - a uniform solid cross-section in the form of a cylinder, - with a diameter of 0.8 mm or more, but not more than 5 mm, - an aluminium content by weight of 0,3% or more, but not more than 0,7%, - a silicon content by weight of 0,3% or more, but not more than 0,6%, - a niobium content by weight of 0,1 or more, but not more than 0,3%, and - an iron content by weight of not more than 0,2% |
| **8108 90 30 25** |  |  | - - - Titanium-aluminium-vanadium alloy (TiAl6V4) bars, rods and wire, complying with AMS standards 4928, 4965 or 4967 |
| **8108 90 30 60** |  |  | - - - Forged cylindrical bars of titanium with: - a purity of 99,995% by weight or more, - a diameter of 140 mm or more but not more than 200 mm, - a weight of 5 kg or more but not more than 300 kg |
| **8108 90 30 70** |  |  | - - - Wire of an titanium alloy containing by weight: - 22% (± 1%) of vanadium, and - 4% (± 0,5%) of aluminium or - 15% (± 1%) of vanadium, - 3% (± 0,5%) of chromium, - 3% (± 0,5% of tin and - 3% (± 0,5%) of aluminium |
| **8108 90 30 90** |  |  | - - - Other |
| **8108 90 50** |  |  | - - Plates, sheets, strip and foil |
| **8108 90 50 45** | 7.0% |  | - - - Cold or hot rolled plates, sheets and strips of non-alloyed titanium with: - a thickness of 0.4 mm or more, but not more than 100 mm, - a length of not more than 14 m, and - a width of not more than 4 m |
| **8108 90 50 55** |  |  | - - - Plates, sheets, strip and foil of an alloy of titanium |
| **8108 90 50 80** |  |  | - - - Plates, sheets, strips and foil of non-alloyed titanium - of a width of more than 750 mm - of a thickness of not more than 3 mm |
| **8108 90 50 85** |  |  | - - - Strip or foil of non-alloyed titanium: - containing more than 0,07% by weight of oxygen (O2), - of a thickness of 0.4 mm or more but not more than 2.5 mm - conforming to the Vickers hardness HV1 standard of not more than 170 of a kind used in the manufacture of welded tubes for nuclear power plant condensers |
| **8108 90 50 90** |  |  | - - - Other |
| **8108 90 60** |  |  | - - Tubes and pipes |
| **8108 90 60 10** | 0.0% | Code reserved for authorised use | - - - Tubes and pipes, with attached fittings, suitable for conducting gases or liquids, for use in civil aircraft |
| **8108 90 60 20** | 7.0% |  | - - - Thin-walled tubes ready for use in ventilation and air-conditioning systems, for use in certain types of aircraft |
| **8108 90 60 30** | 7.0% |  | - - - Seamless tubes and pipes of a titanium or an alloy of titanium with: - a diameter of 19 mm or more but not more than 159 mm, - a wall thickness of 0.4 mm or more but not more than 8 mm, and - a maximum length of 18 m |
| **8108 90 60 90** | 7.0% |  | - - - Other |
| **8108 90 90** |  |  | - - Other |
| **8108 90 90 10** | 7.0% |  | - - - Self-locking bolts and nuts (of the type "Hi-lok") |
| **8108 90 90 30** |  |  | - - - Parts of spectacle frames and mountings, including - temples, - blanks of a kind used for the manufacture of spectacle parts and - bolts of the kind used for spectacle frames and mountings, of a titanium alloy |
|  |  |  | - - - Other |
| **8108 90 90 91** | 7.0% |  | - - - - Bolts, nuts, screws, rivets and similar articles complying with US standards, for use in certain types of aircraft |
| **8108 90 90 99** |  |  | - - - - Other |
| **8109** |  |  | **Zirconium and articles thereof, including waste and scrap** |
| **8109 20** |  |  | **- Unwrought zirconium; powders** |
| **8109 20 00 10** | 5.0% |  | - - Non-alloy zirconium sponges or ingots, containing by weight more than 0,01% of hafnium for use in the manufacture of tubes, bars or ingots enlarged by remelting for the chemical industry |
| **8109 20 00 90** |  |  | - - Other |
| **8109 30 00 00** | 0.0% |  | **- Waste and scrap** |
| **8109 90 00 00** | 9.0% |  | **- Other** |
| **8110** |  |  | **Antimony and articles thereof, including waste and scrap** |
| **8110 10** |  |  | **- Unwrought antimony; powders** |
| **8110 10 00 10** | 7.0% |  | - - Antimony in the form of ingots |
| **8110 10 00 90** |  |  | - - Other |
| **8110 20 00 00** | 0.0% |  | **- Waste and scrap** |
| **8110 90 00 00** | 7.0% |  | **- Other** |
| **8111** |  |  | **Manganese and articles thereof, including waste and scrap** |
|  |  |  | **- Unwrought manganese; waste and scrap; powders** |
| **8111 00 11 00** | 0.0% |  | - - Unwrought manganese; powders |
| **8111 00 19 00** | 0.0% |  | - - Waste and scrap |
| **8111 00 90 00** | 5.0% |  | **- Other** |
| **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** | 0.0% |  | - - Unwrought; powders |
| **8112 13 00 00** | 0.0% |  | - - Waste and scrap |
| **8112 19 00 00** | 3.0% |  | - - Other |
|  |  |  | **- Chromium** |
| **8112 21** |  |  | - - Unwrought; powders |
| **8112 21 10 00** | 0.0% |  | - - - Alloys containing more than 10% by weight of nickel |
| **8112 21 90 00** | 3.0% |  | - - - Other |
| **8112 22 00 00** | 0.0% |  | - - Waste and scrap |
| **8112 29 00 00** | 5.0% |  | - - Other |
|  |  |  | **- Thallium** |
| **8112 51 00 00** | 1.5% |  | - - Unwrought; powders |
| **8112 52 00 00** | 0.0% |  | - - Waste and scrap |
| **8112 59 00 00** | 3.0% |  | - - Other |
|  |  |  | **- Other** |
| **8112 92** |  |  | - - Unwrought; waste and scrap; powders |
| **8112 92 10 00** | 3.0% |  | - - - Hafnium (celtium) |
|  |  |  | - - - Niobium (columbium); rhenium; gallium; indium; vanadium; germanium |
| **8112 92 21 00** | 0.0% |  | - - - - Waste and scrap |
|  |  |  | - - - - Other |
| **8112 92 31 00** | 3.0% |  | - - - - - Niobium (columbium); rhenium |
| **8112 92 81 00** | 2.0% |  | - - - - - Indium |
| **8112 92 89 00** | 1.5% |  | - - - - - Gallium |
| **8112 92 91 00** | 0.0% |  | - - - - - Vanadium |
| **8112 92 95 00** | 4.5% |  | - - - - - Germanium |
| **8112 99** |  |  | - - Other |
| **8112 99 20** |  |  | - - - Hafnium (celtium); germanium |
| **8112 99 20 10** | 7.0% |  | - - - - Hafnium (celtium) |
| **8112 99 20 90** |  |  | - - - - Germanium |
| **8112 99 30** |  |  | - - - Niobium (columbium); rhenium |
| **8112 99 30 10** | 9.0% |  | - - - - Alloy of niobium (columbium) and titanium, in the form of bars and rods |
| **8112 99 30 90** |  |  | - - - - Other |
| **8112 99 70 00** | 3.0% |  | - - - Gallium; indium; vanadium |
| **8113** |  |  | **Cermets and articles thereof, including waste and scrap** |
| **8113 00 20** |  |  | **- Unwrought** |
| **8113 00 20 10** | 4.0% |  | - - Cermet blocks containing by weight 60% or more of aluminium and 5% or more of boron carbide |
| **8113 00 20 90** |  |  | - - Other |
| **8113 00 40 00** | 0.0% |  | **- Waste and scrap** |
| **8113 00 90** |  |  | **- Other** |
| **8113 00 90 10** | 5.0% |  | - - Carrier plate of aluminium silicon carbide (AlSiC-9) for electronic circuits |
| **8113 00 90 20** |  |  | - - Cuboid spacer made of aluminium silicon carbide (AlSiC) composite used for packaging in IGBT-modules |
| **8113 00 90 90** |  |  | - - Other |