CHAPTER 81

OTHER BASE METALS; CERMETS; ARTICLES THEREOF

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.

Heading/ Subheading	Stat. Suf-fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
8101		Tungsten (wolfram) and articles thereof, including waste and scrap:				
8101.10.00	00	Powders	kg W kg	7%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	58%
		Other:				
8101.94.00	00	Unwrought tungsten, including bars and rods obtained simply by sintering	kg	6.6%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	60%
8101.96.00	00	Wire	kg	4.4%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	60%
8101.97.00	00	Waste and scrap	kg W kg	2.8%	Free (A*, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	60%
8101.99.80	00	Other	kg	3.7%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%

Heading/ Subheading	Stat. Suf-fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	$1.10/kg on molybdenum content + 15%
		Other:				
8102.94.00	00	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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	60%
8102.95.60	00	Other	kg	6.6%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	60%
8102.96.00	00	Wire	kg	4.4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
	30	Powders	kg			
	90	Other	kg			
8103.30.00	00	Waste and scrap	kg	Free		Free
		Other:				
8103.91.00	00	Crucibles	kg	4.4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8103.99.00	00	Other	kg	4.4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%

Heading/ Subheading	Stat. Suf- fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
8104		Magnesium and articles thereof, including waste and scrap:				
		Unwrought magnesium:				
8104.11.00	00	Containing at least 99.8 percent by weight of magnesium	kg	8%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	100%
8104.19.00	00	Other	kg Mg kg	6.5%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	60.5%
8104.90.00	00	Other	kg Mg kg	14.8¢/kg on magnesium content + 3.5%	Free (A, AU, B, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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:				
		Unwrought cobalt:				
8105.20.30	00	Alloys	kg	4.4%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8105.20.60	00	Other	kg	Free		Free
8105.20.90	00	Other	kg	Free		Free
8105.30.00	00	Waste and scrap	kg	Free		Free
8105.90.00	00	Other	kg	3.7%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8106		Bismuth and articles thereof, including waste and scrap:				
8106.10.00	00	Containing more than 99.99 percent of bismuth, by weight	kg	Free		7.5%
8106.90.00	00	Other	kg	Free		7.5%

Heading/ Subheading	Stat. Suf-fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
8108		Titanium and articles thereof, including waste and scrap:				
8108.20.00		Unwrought titanium; powders		15%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%[1/]
	10	Sponge	kg			
		Other:				
	15	Powders	kg			
	30	Ingots	kg			
	95	Other	kg			
8108.30.00	00	Waste and scrap	kg	Free		Free[1/]
8108.90		Other:				
8108.90.30		Articles of titanium		5.5%	Free (A*, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
	30	Castings	kg			
	60	Other	kg			
8108.90.60		Other		15%	Free (A*, AU, BH, C, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)[2/]	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:				
		Unwrought zirconium; powders:				
8109.21.00	00	Containing less than 1 part hafnium to 500 parts zirconium by weight	kg	4.2%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8109.29.00	00	Other	kg	4.2%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
		Waste and scrap:				
8109.31.00	00	Containing less than 1 part hafnium to 500 parts zirconium by weight	kg	Free		Free
8109.39.00	00	Other	kg	Free		Free
		Other:				
8109.91.00	00	Containing less than 1 part hafnium to 500 parts zirconium by weight	kg	3.7%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8109.99.00	00	Other	kg	3.7%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%

Heading/ Subheading	Stat. Suf-fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
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
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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	20%
8111.00.49		Other		14%	Free (A+, AU, BH, CL, CO, E, IL, JO, KR, MA, OM, P, PA, PE, S, 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, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8112		Beryllium, chromium, hafnium, rhenium, thallium, cadmium, germanium, vanadium, gallium, indium and niobium (columbium), and articles of these metals, including waste and scrap:				
		Beryllium:				
8112.12.00	00	Unwrought; powders	kg	8.5%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8112.13.00	00	Waste and scrap	kg	Free		Free
8112.19.00	00	Other	kg	5.5%	Free (A*, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
		Chromium:				
8112.21.00	00	Unwrought; powders	kg	3%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	30%
8112.22.00	00	Waste and scrap	kg	Free		Free
8112.29.00	00	Other	kg	3%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	30%

Heading/ Subheading	Stat. Suf- fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
8112 (con.)		Beryllium, chromium, hafnium, rhenium, thallium, cadmium, germanium, vanadium, gallium, indium and niobium (columbium), and articles of these metals, including waste and scrap: (con.)				
		Hafnium:				
8112.31.00	00	Unwrought; waste and scrap; powders	kg	Free		25%[1/]
8112.39.00	00	Other	kg	4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
		Rhenium:				
8112.41		Unwrought; waste and scrap; powders:				
8112.41.10	00	Waste and scrap	kg	Free		Free[1/]
8112.41.50	00	Unwrought; powders	kg	3%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8112.49.00	00	Other	kg	4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
		Thallium:				
8112.51.00	00	Unwrought; powders	kg	4%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8112.52.00	00	Waste and scrap	kg	Free		Free
8112.59.00	00	Other	kg	4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
		Cadmium:				
8112.61.00	00	Waste and scrap	kg	Free		33¢/kg
8112.69		Other:				
8112.69.10	00	Unwrought cadmium; powders	kg	Free		33¢/kg
8112.69.90	00	Other	kg	4.4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%

Heading/ Subheading	Stat. Suf-fix	Article Description	Unit of Quantity	Rates of Duty 1 General	Rates of Duty 1 Special	Rates of Duty 2
8112 (con.)		Beryllium, chromium, hafnium, rhenium, thallium, cadmium, germanium, vanadium, gallium, indium and niobium (columbium), and articles of these metals, including waste and scrap: (con.)				
		Other:				
8112.92		Unwrought; waste and scrap; powders:				
8112.92.07	00	Waste and scrap	kg	Free		Free[1/]
		Other:				
8112.92.10	00	Gallium	kg	3%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%[1/]
8112.92.30	00	Indium	kg	Free		25%[1/]
8112.92.40	00	Niobium (columbium)	kg	4.9%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%[1/]
		Germanium:				
8112.92.60	00	Unwrought	kg	2.6%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8112.92.65	00	Other	kg	4.4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8112.92.70	00	Vanadium	kg V kg	2%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8112.99		Other:				
8112.99.10	00	Germanium	kg	4.4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8112.99.20	00	Vanadium	kg V kg	2%	Free (A+, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	25%
8112.99.91	00	Other	kg	4%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%
8113.00.00	00	Cermets and articles thereof, including waste and scrap	kg	3.7%	Free (A, AU, BH, CL, CO, D, E, IL, JO, KR, MA, OM, P, PA, PE, S, SG)	45%

1/ See 9903.90.09.
2/ See additional U.S. note 2 to this chapter.