

# Harmonized Tariff Schedule of the United States (2011)

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 .....	7%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	58%
		Other:				
8101.94.00	00	Unwrought tungsten, including bars and rods obtained simply by sintering .....	kg .....	6.6%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60%
8101.96.00	00	Wire .....	kg .....	4.4%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60%
8101.97.00	00	Waste and scrap .....	kg .....	2.8%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	50%
		Other:				
8101.99		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,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60%
8101.99.10	00					
8101.99.80	00	Other .....	kg .....	3.7%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%
8102		Molybdenum and articles thereof, including waste and scrap:				
8102.10.00	00	Powders .....	kg .....	9.1¢/kg on molybdenum content + 1.2%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	\$1.10/kg on molybdenum content + 15%
		Other:				
8102.94.00	00	Unwrought molybdenum, including bars and rods obtained simply by sintering .....	kg .....	13.9¢/kg on molybdenum content + 1.9%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,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,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60%
8102.95.60	00	Other .....	kg .....	6.6%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60%
8102.96.00	00	Wire .....	kg .....	4.4%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60%
8102.97.00	00	Waste and scrap .....	kg .....	Free		Free
8102.99.00	00	Other .....	kg .....	3.7%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%

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Heading/ Subheading	Stat. Suf- fix	Article Description	Unit of Quantity	Rates of Duty		
				1		2
				General	Special	
8103		Tantalum and articles thereof, including waste and scrap:				
8103.20.00		Unwrought tantalum, including bars and rods obtained simply by sintering; powders .....	kg	2.5%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,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,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%
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,E,IL,J,JO,MA,MX,OM,P,PE,SG)	100%
8104.19.00	00	Other .....	kg Mg kg	6.5%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,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%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	60.5%
8104.90.00	00	Other .....	kg Mg kg	14.8¢/kg on magnesium content + 3.5%	Free (A,AU,B,CA,CL,E,IL,J,JO,MA,MX,OM,P,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% <sup>1/</sup>	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,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,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%
8106.00.00	00	Bismuth and articles thereof, including waste and scrap ..	kg	Free		7.5%
8107		Cadmium and articles thereof, including waste and scrap:				
8107.20.00	00	Unwrought cadmium; powders .....	kg	Free		33¢/kg
8107.30.00	00	Waste and scrap .....	kg	Free		33¢/kg
8107.90.00	00	Other .....	kg	4.4%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%

<sup>1/</sup> See subheading 9902.80.05

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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		15%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	25%
	10	Sponge	kg			
		Other:				
	15	Powders	kg			
	30	Ingots	kg			
	91	Other	kg			
8108.30.00	00	Waste and scrap	kg	Free		Free
8108.90		Other:				
8108.90.30		Articles of titanium		5.5%	Free(A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%
	30	Castings	kg			
	60	Other	kg			
8108.90.60		Other		15%	Free (A*,AU,BH,C1/, CA,CL,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%
	10	Billets	kg			
	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,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	25%
8109.30.00	00	Waste and scrap	kg	Free		Free
8109.90.00	00	Other	kg	3.7%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,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
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,D,E,IL,J,JO,MA,MX,OM,P,PE,SG)	20%
8111.00.49		Other		14%	Free (A+,AU,BH,CA,CL,E,IL,J,JO,MA,MX,OM,P,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,E,IL,J,JO,MA,MX,OM,P,PE,SG)	45%

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

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Heading/ Subheading	Stat. Suf- fix	Article Description	Unit of Quantity	Rates of Duty		
				1		2
				General	Special	
8112		Beryllium, chromium, germanium, vanadium, gallium, hafnium, indium, niobium (columbium), rhenium and thallium, and articles of these metals, including waste and scrap:				
8112.12.00	00	Beryllium: Unwrought; powders . . . . .	kg . . . . .	8.5%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	25%
8112.13.00	00	Waste and scrap . . . . .	kg . . . . .	Free		Free
8112.19.00	00	Other . . . . .	kg . . . . .	5.5%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	45%
8112.21.00	00	Chromium: Unwrought; powders . . . . .	kg . . . . .	3%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	30%
8112.22.00	00	Waste and scrap . . . . .	kg . . . . .	Free		Free
8112.29.00	00	Other . . . . .	kg . . . . .	3%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	30%
8112.51.00	00	Thallium: Unwrought; powders . . . . .	kg . . . . .	4%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA, MX,OM, P,PE,SG)	25%
8112.52.00	00	Waste and scrap . . . . .	kg . . . . .	Free		Free
8112.59.00	00	Other . . . . .	kg . . . . .	4%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	25%
8112.92		Other: Unwrought; waste and scrap; powders:				
8112.92.06	00	Waste and scrap . . . . .	kg . . . . .	Free		Free
8112.92.10	00	Other: Gallium . . . . .	kg . . . . .	3%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	25%
8112.92.20	00	Hafnium . . . . .	kg . . . . .	Free		25%
8112.92.30	00	Indium . . . . .	kg . . . . .	Free		25%
8112.92.40	00	Niobium (columbium) . . . . .	kg . . . . .	4.9%	Free (A+,AU,BH,CA,CL,D,E,IL,J,JO,MA, MX,OM, P,PE,SG)	25%
8112.92.50	00	Rhenium . . . . .	kg . . . . .	3%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	25%
8112.92.60	00	Germanium: Unwrought . . . . .	kg . . . . .	2.6%	Free (A*,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM, P,PE,SG)	25%
8112.92.65	00	Other . . . . .	kg . . . . .	4.4%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	45%
8112.92.70	00	Vanadium . . . . .	kg . . . . . V kg	2%	Free (A+,AU,BH,CA,CL,D, E,IL,J,JO,MA, MX,OM, P,PE,SG)	25%
8112.99		Other:				
8112.99.10	00	Germanium . . . . .	kg . . . . .	4.4%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM, P,PE,SG)	45%
8112.99.20	00	Vanadium . . . . .	kg . . . . . V kg	2%	Free (A+,AU,BH,CA,CL,D, E,IL,J,JO,MA, MX,OM, P,PE,SG)	25%
8112.99.90	00	Other . . . . .	kg . . . . .	4%	Free (A,AU,BH,CA,CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	45%

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Heading/ Subheading	Stat. Suf- fix	Article Description	Unit of Quantity	Rates of Duty		
				1		2
				General	Special	
8113.00.00	00	Cermets and articles thereof, including waste and scrap . . .	kg . . . . .	3.7%	Free (A,AU,BH,CA, CL,E,IL,J,JO,MA, MX,OM,P,PE,SG)	45%