#### Note

1. In this chapter the following expressions have the meanings hereby assigned to them:

#### (a) Refined copper

Metal containing at least 99.85 percent by weight of copper; or

Metal containing at least 97.5 percent by weight of copper, provided that the content by weight of any other element does not exceed the limit specified in the following table:

TABLE - Other elements

Element		Limiting content percent by weight		
Ag	Silver	0.25		
As	Arsenic	0.5		
Cd	Cadmium	1.3		
Cr	Chromium	1.4		
Mg	Magnesium	0.8		
Pb	Lead	1.5		
S	Sulfur	0.7		
Sn	Tin	0.8		
Te	Tellurium	0.8		
Zn	Zinc	1		
Zr	Zirconium	0.3		
Other	elements*, each	0.3		

<sup>\*</sup> Other elements are, for example, Al, Be, Co, Fe, Mn, Ni, Si.

#### (b) Copper alloys

Metallic substances other than unrefined copper in which copper predominates by weight over each of the other elements, provided that:

- (i) The content by weight of at least one of the other elements is greater than the limit specified in the foregoing table; or
- (ii) The total content by weight of such other elements exceeds 2.5 percent.

### (c) Master alloys

Alloys containing with other elements more than 10 percent by weight of copper, not usefully malleable and commonly used as an additive in the manufacture of other alloys or as deoxidants, desulfurizing agents or for similar uses in the metallurgy of nonferrous metals. However, copper phosphide (phosphor copper) containing more than 15 percent by weight of phosphorus falls in heading 2848.

### (d) Bars and rods

Rolled, extruded, drawn or forged products, not in coils, which have a uniform solid cross section along their whole length in the shape of circles, ovals, rectangles (including squares), equilateral triangles or regular convex polygons (including "flattened circles" and "modified rectangles", of which two opposite sides are convex arcs, the other two sides being straight, of equal length and parallel). Products with a rectangular (including square), triangular or polygonal cross section may have corners rounded along their whole length. The thickness of such products which have a rectangular (including "modified rectangular") cross section exceeds one-tenth of the width. The expression also covers cast or sintered products, of the same forms and dimensions, which have been subsequently worked after production (otherwise than by simple trimming or descaling), provided that they have not thereby assumed the character of articles or products of other headings.

Wire bars and billets with their ends tapered or otherwise worked simply to facilitate their entry into machines for converting them into, for example, drawing stock (wire rod) or tubes, are, however, to be taken to be unwrought copper of heading 7403.

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# (e) <u>Profiles</u>

Rolled, extruded, drawn, forged or formed products, coiled or not, of a uniform cross section along their whole length, which do not conform to any of the definitions of bars, rods, wire, plates, sheets, strip, foil, tubes or pipes. The expression also covers cast or sintered products, of the same forms, which have been subsequently worked after production (otherwise than by simple trimming or descaling), provided that they have not thereby assumed the character of articles or products of other headings.

### (f) Wire

Rolled, extruded or drawn products, in coils, which have a uniform solid cross section along their whole length in the shape of circles, ovals, rectangles (including squares), equilateral triangles or regular convex polygons (including "flattened circles" and "modified rectangles", of which two opposite sides are convex arcs, the other two sides being straight, of equal length and parallel). Products with a rectangular (including square), triangular or polygonal cross section may have corners rounded along their whole length. The thickness of such products which have a rectangular (including "modified rectangular") cross section exceeds one-tenth of the width.

In the case of heading 7414, however, the term "wire" applies only to products, whether or not in coils, of any cross-sectional shape, of which no cross-sectional dimension exceeds 6 mm.

#### (g) Plates, sheets, strip and foil

Flat-surfaced products (other than the unwrought products of heading 7403), coiled or not, of solid rectangular (other than square) cross section with or without rounded corners (including "modified rectangles" of which two opposite sides are convex arcs, the other two sides being straight, of equal length and parallel) of a uniform thickness, which are:

- of rectangular (including square) shape with a thickness not exceeding one-tenth of the width,
- of a shape other than rectangular or square, of any size, provided that they do not assume the character of articles or products of other headings.

Headings 7409 and 7410 apply, <u>inter alia</u>, to plates, sheets, strip and foil with patterns (for example, grooves, ribs, checkers, tears, buttons, lozenges) and to such products which have been perforated, corrugated, polished or coated, provided that they do not thereby assume the character of articles or products of other headings.

#### (h) Tubes and pipes

Hollow products, coiled or not, which have a uniform cross section with only one enclosed void along their whole length in the shape of circles, ovals, rectangles (including squares), equilateral triangles or regular convex polygons, and which have a uniform wall thickness. Products with a rectangular (including square), equilateral triangular or regular convex polygonal cross section, which may have corners rounded along their whole length, are also to be taken to be tubes and pipes provided the inner and outer cross sections are concentric and have the same form and orientation. Tubes and pipes of the foregoing cross sections may be polished, coated, bent, threaded, drilled, waisted, expanded, cone-shaped or fitted with flanges, collars or rings.

### Subheading Note

- 1. In this chapter the following expressions have the meanings hereby assigned to them:
  - (a) Copper-zinc base alloys (brasses)

Alloys of copper and zinc, with or without other elements. When other elements are present:

- zinc predominates by weight over each of such other elements;
- any nickel content by weight is less than 5 percent (see copper-nickel-zinc alloys (nickel silvers)); and
- any tin content by weight is less than 3 percent (see copper-tin alloys (bronzes)).

### (b) Copper-tin base alloys (bronzes)

Alloys of copper and tin, with or without other elements. When other elements are present, tin predominates by weight over each of such other elements, except that when the tin content is 3 percent or more the zinc content by weight may exceed that of tin but must be less than 10 percent.

### (c) Copper-nickel-zinc base alloys (nickel silvers)

Alloys of copper, nickel and zinc, with or without other elements. The nickel content is 5 percent or more by weight (see copper-zinc alloys (brasses)).

### (d) Copper-nickel base alloys

Alloys of copper and nickel, with or without other elements but in any case containing by weight not more than 1 percent of zinc. When other elements are present, nickel predominates by weight over each of such other elements.

# Additional U.S. Note

1. The deduction provided for in additional U.S. note 1 to chapter 26 shall apply to cement copper and copper precipitates of subheading 7401.20.

# Statistical Note

1. For the purposes of this chapter, the term "beryllium copper master alloy" refers to master alloys which contain by weight at least 3 percent but not more than 10 percent beryllium.

7401 7401.10.00	Co	opper mattes; cement copper (precipitated copper): Copper mattes		Free			8.8¢/kg on copper content + 3.3¢/kg on lead content +
	4.7¢/kg	9					
	on zin	c					
	content 20 40 60	t Copper content Lead content Zinc content	kg v				
7401.20.00	00	Cement copper (precipitated copper)	kg	Free			6%
7402.00.00		nrefined copper; copper anodes for electrolytic efining copper content		Free			6%
7403		efined copper and copper alloys, unwrought (other han master alloys of heading 7405):	J				
7403.11.00	00	Refined copper: Cathodes and sections of cathodes	kg	1%	Free	(A*,CA,E,IL,	6%
7403.12.00	00	Wire bars	kg	1%	Free	J,MX) (A*,CA,E,IL,	6%
7403.13.00	00	Billets	kg	1%	Free	J,MX) (A,CA,E,IL, J,MX)	6%
7403.19.00	00	Other	kg	1%	Free	(A,CA,E,IL, J,MX)	6%
7403.21.00	00	Copper alloys: Copper-zinc base alloys (brass)	kg	1%	Free	(A*,CA,E,IL,	6%
7403.22.00	00	Copper-tin base alloys (bronze)	kg	1%	Free	J,MX) (A*,CA,E,IL, J,MX)	6%
7403.23.00	00	Copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver)	kg	1%	Free	(A*,CA,E,IL,	6%
		2.2	,		_	J,MX)	
7403.29.00 7404.00	00	Other copper alloys	кд	1%	Free	(A*,CA,E,IL, J,MX)	68
7404.00.30	20	Spent anodes; waste and scrap with a copper content of less than 94 percent by weight  Of refined copper  Of copper alloys:		Free			6%
	45	Of copper-zinc base alloys (brass): Containing more than 0.3 per- cent of lead	kg				
7404.00.60	55 65 90	Other	kg kg	Free			6%
7404.00.60	20	Of refined copper		1166			
	45	Containing more than 0.3 percent of lead	kg				
	55 65 90	OtherOf copper-tin base alloys (bronze)	kg				

7405.00 7405.00.10	00	Master alloys of copper:  Containing by weight 5 percent or more but not more than 15 percent of phosphorus	kg	Free		12%
7405.00.60	3 0 5 0	Other  Beryllium copper master alloy  Other	kg	Free		28%
7406 7406.10.00 7406.20.00	00	Copper powders and flakes: Powders of non-lamellar structure Powders of lamellar structure; flakes		Free Free		49% 12%
7407 7407.10		Copper bars, rods and profiles: Of refined copper: Profiles:				
7407.10.15	00	Hollow profiles	kg	3 %	Free	(A,CA,E,IL,J,48% MX)
7407.10.30	00	Other	kg	3%	Free	(A,CA,E,IL,J,48% MX)
7407.10.50		Bars and rods		1%	Free	(A,CA,E,IL,J,7% MX)
7407.21	10 50	Having a rectangular cross section  Other Of copper alloys: Of copper-zinc base alloys (brass):				
7407.21.15	00	Profiles: Hollow profiles	kg	2.2%	Free	(A,CA,E,IL,J,17%
7407.21.30	00	Other	kg	2.2%	Free	MX) (A,CA,E,IL,J,17% MX)
7407.21.50	00	Bars and rods: Low fuming brazing rods	kg	2.2%	Free	(A,CA,E,IL,J,9% MX)
7407 01 70	0.0	Other:				
7407.21.70	00	Having a rectangular cross section	kg	1.9%	Free	(A,CA,E,IL,J,9% MX)
7407.21.90	00	Other	kg	2.2%	Free	(A*,CA,E,IL, 9% J,MX)
7407.22		Of copper-nickel base alloys (cupro- nickel) or copper-nickel-zinc base alloys (nickel silver): Profiles:				
7407.22.15	00	Hollow profiles	kg	3%	Free	(A,CA,E,IL,J,48% MX)
7407.22.30	00	Other	kg	3%	Free	(A*,CA,E,IL, 48% J,MX)
7407.22.50	00	Bars and rods	kg	3%	Free	(A,CA,E,IL,J,48% MX)
7407.29		Other:				
7407.29.15	00	Profiles: Hollow profiles	kg	3%	Free	(A,CA,E,IL,J,48% MX)
7407.29.30	00	Other	kg	3%	Free	(A,CA,E,IL,J,48% MX)
7407.29.50	00	Bars and rods	kg	1.6%	Free	(A,CA,E,IL,J, 9% MX)

7408		Copper wire: Of refined copper:				
7408.11		Of which the maximum cross-sectional dimension exceeds 6 mm:				
7408.11.30	00	With a maximum cross-sectional di- mension over 9.5 mm	kg	1%	Free	(A,CA,E,IL,J,7% MX)
7408.11.60	00	With a maximum cross-sectional dimension over 6 mm but not over 9.5 mm	lea	3%	Fron	(A,CA,E,IL,J,28%
		9.3 uut	<i>r</i> g	3.6	riee	MX)
7408.19.00	00	Other	kg	3%	Free	(A,CA,E,IL,J,28% MX)
7408.21.00	00	Of copper alloys: Of copper-zinc base alloys (brass)	kg	3%	Free	(A,CA,E,IL,J,28% MX)
7408.22		Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys				,
7408.22.10	00	<pre>(nickel silver):</pre>	kg	3%	Free	(A,CA,E,IL,J,28% MX)
7408.22.50	00	Not coated or plated with metal	kg	3%	Free	(A,CA,E,IL,J,28% MX)
7408.29 7408.29.10	00	Other: Coated or plated with metal	kg	3%	Free	(A,CA,E,IL,J,28%
7408.29.50	00	Not coated or plated with metal	kg	3%	Free	MX) (A,CA,E,IL,J,28% MX)
7409		Copper plates, sheets and strip, of a thickness exceeding 0.15 mm: Of refined copper:				PIX
7409.11 7409.11.10	00	In coils: Of a thickness of 5 mm or more	kg	3%	Free	(A,CA,E,IL,J,38% MX)
7409.11.50		Of a thickness of less than 5 mm		1%	Free	(A*,CA,E,IL, 7.5%
	10 50	Of a width of 500 mm or more Of a width of less than 500 mm				J,MX)
7409.19 7409.19.10	00	Other: Of a thickness of 5 mm or more	kg	3%	Free	(A,CA,E,IL,J,48%
7409.19.50	00	Of a thickness of less than 5 mm: Of a width of 500 mm or more	kg	1%	Free	MX) (A,CA,E,IL,J,7.5%
7409.19.90	00	Of a width of less than 500 mm	kg	3%	Free	MX) (A,CA,E,IL,J,48%
						MX)

7409 (con.)		Copper plates, sheets and strip, of a thickness exceeding 0.15 mm (con.):				
7409.21.00		Of copper-zinc base alloys (brass): In coils		1.9%	Free	(A*,CA,E,IL, 9% J,MX)
	10	Of a thickness of 5 mm or more Of a thickness of less than 5 mm:	kg			0 , PIX )
	50	Of a width of 500 mm or more Of a width of less than 500 mm:	kg			
	75	Of a thickness less than 1.6 mm	kg			
	90	Other	kg			
7409.29.00		Other		1.9%	Free	(A,CA,E,IL,J, 9% MX)
	10	Of a thickness of 5 mm or more Of a thickness of less than 5 mm:				
	50	Of a width of 500 mm or more Of a width of less than 500 mm:	kg			
	75	Of a thickness less than 1.6 mm	kg			
7409.31	90	Of copper-tin base alloys (bronze):	kg			
7409.31.10	00	In coils:  Of a thickness of 5 mm or more	kg	3%	Free	(A,CA,E,IL,J,49% MX)
7409.31.50	00	Of a thickness of less than 5 mm: Of a width of 500 mm or more	kg	1.7%	Free	(A,CA,E,IL,J,9% MX)
7409.31.90	00	Of a width of less than 500 mm	kg	3%	Free	(A,CA,E,IL,J,49%
7409.39		Other:				MX)
7409.39.10		Of a thickness of 5 mm or more		3%	Free	(A,CA,E,IL,J,49% MX)
	30	Of phosphor bronze	kg			
	60	Othercopper content				
7409.39.50	00	Of a thickness of less than 5 mm: Of a width of 500 mm or more	kg	1.7%	Free	(A*,CA,E,IL, 9% J,MX)
7409.39.90		Of a width of less than 500 mm		3%	Free	(A,CA,E,IL,J,49%
	30	Of phosphor bronze copper content				MX)
	60	Othercopper content	kg v			
7409.40.00	00	Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys	1.5			
		(nickel silver)	kg	3%	Free	(A,CA,E,IL,J,48% MX)
7409.90 7409.90.10		Of other copper alloys: Of a thickness of 5 mm or more		3%	Free	(A,CA,E,IL,J,49% MX)
	30	Of beryllium coppercopper content	kg v kg			
	60	Othercopper content	kg v			
7409.90.50		Of a thickness of less than 5 mm: Of a width of 500 mm or more		1.7%	Free	(A,CA,E,IL,J,9%
	30	Of beryllium copper				MX)
	60	other	kg v			
7409.90.90		copper content  Of a width of less than 500 mm		3%	Free	(A,CA,E,IL,J,49% MX)
	30	Of beryllium copper copper content	kg v kg			/
	60	Othercopper content	kg v			

7410		Copper foil (whether or not printed or backed with paper, paperboard, plastics or similar backing materials) of a thickness (excluding any backing) not exceeding 0.15 mm:				
7410.11.00	00	Not backed: Of refined copper	kg	1%	Free	(A,CA,E,IL,J,6.5% MX)
7410.12.00		Of copper alloys		1%	Free	(A,CA,E,IL,J,6.5% MX)
	30 60	Of copper-zinc base alloys (brass) Other				,
7410.21 7410.21.30		Of refined copper: Copper clad laminates		3%	Free	(A,CA,E,IL,J,80% MX)
	20	Having a base wholly of plas- tics impregnated glass: Having copper on one side				rix)
	20	only	m² v kg			
	40	Having copper on both sides	m² v			
	60	Other				
7410.21.60	00	Other		1.5%	Free	(A,CA,E,IL,J,6% MX)
7410.22.00	00	Of copper alloys	kg	1.5%	Free	(A,CA,E,IL,J,6% MX)
7411 7411.10 7411.10.10		Copper tubes and pipes: Of refined copper: Seamless		1.5%	Free	(A,CA,E,IL,J,13%
	30	Having an outside diameter of 6 mm or more but not exceeding 16 mm, in coils on spools	kg			riik)
7411.10.50	90 00	Other		3%	Free	(A,CA,E,IL,J,47% MX)
7411.21		Of copper alloys: Of copper-zinc base alloys (brass):				,
7411.21.10	00	Seamless	kg	1.4%	Free	(A,CA,E,IL,J,10% MX)
7411.21.50	00	Other	kg	3%	Free	(A*,CA,E,IL, 49% J,MX)
7411.22.00	00	Of copper-nickel base alloys (cupro- nickel) or copper-nickel-zinc base alloys (nickel-silver)	kg	3%	Free	(A,CA,E,IL,J,47%
7411.29 7411.29.10	00	Other: Seamless	kg	1.4%	Free	MX) (A,CA,E,IL,J,10% MX)
7411.29.50	00	Other	kg	3%	Free	(A,CA,E,IL,J,49% MX)

7412		Copper tube or pipe fittings (for example couplings, elbows, sleeves):				
7412.10.00	00	Of refined copper	kg	3%	Free	(A,B,CA,E,IL,46% J,MX)
7412.20.00		Of copper alloys		3%	Free	(A,B,CA,E,IL,49% J,MX)
	15	For brake hoses for vehicles of subheading 8701.20 or heading 8702, 8703, 8704, or 8705	kg			O, MA)
		Other: Of copper-zinc base alloys (brass):				
		Threaded:	,			
	25 35	Nipples Other	kg			
	45	Other:	kg			
	65	Threaded: Nipples	ka			
	85	Other	kg			
	90	Other	kg			
7413.00		Stranded wire cables, plaited bands and the like, including slings and similar articles, of copper, not electrically insulated:  Not fitted with fittings and not made up				
7413.00.10	00	into articles: Stranded wire	kg	3%	Free	(A,CA,E,IL,J,35% MX)
7413.00.50	00	Other	kg	2%	Free	(A,CA,E,IL,J,35% MX)
7413.00.90	00	Fitted with fittings or made up into articles	ka	3%	Fron	(A,B,C,CA,E, 45%
			лу	3*	riee	IL, J, MX)
7414		Cloth (including endless bands), grill and net- ting, of copper wire; expanded metal of copper:				
7414.20		Cloth: Fourdrinier wires, seamed or not seamed, suitable for use in paper-				
7414.20.30	0.0	making machines: With 94 or more wires to the lineal				
7111.20.30	00	centimeter	m²v ka	Free		75%
7414.20.60	00	Other		3%	Free	(A,CA,E,IL,J, 75% MX)
7414.20.90	00	Other	$m^2 \dots v$ kg	3%	Free	(A,CA,E,IL,J,43% MX)
7414.90.00	00	Other	kg	3%	Free	(A,B,CA,E,IL,43% J,MX)

7415		Nails, tacks, drawing pins, staples (other than those of heading 8305) and similar articles, of copper or of iron or steel with heads of copper; screws, bolts, nuts, screw hooks, rivets, cotters, cotter pins, washers (including spring washers) and similar articles, of copper:				
7415.10.00	00	Nails and tacks, drawing pins, staples and similar articles	kg	2.5%	Free	(A,CA,E,IL,J,45% MX)
7415.21.00	00	Other articles, not threaded: Washers (including spring washers)	kg	3%	Free	(A,B,CA,E,IL, 45% J,MX)
7415.29.00	00	Other	kg	3%	Free	(A,B,CA,E,IL,45% J,MX)
7415.31.00	00	Other threaded articles: Screws for wood	kg	3%	Free	(A,B,CA,E,IL,45% J,MX)
7415.32 7415.32.10	00	Other screws; bolts and nuts:  Muntz or yellow metal bolts	kg	1.4%	Free	(A,B,CA,E,IL,7% J,MX)
7415.32.50	00	Other: Having shanks, threads or holes 6 mm or more in	,		_	
7415.32.90	0.0	diameter  Having shanks, threads or	kg	3*	Free	(A,B,CA,E,IL, 45% J,MX)
		holes less than 6 mm in diameter	kg	3%	Free	(A,B,CA,E,IL, 45%
7415.39.00	00	Other	kg	3%	Free	J,MX) (A,B,CA,E,IL,45%
7416.00.00	00	Copper springs	kg	3%	Free	J,MX) (A,B,CA,E,IL,45%
7417.00.00	00	Cooking or heating apparatus of a kind used for domestic purposes, non-electric and parts thereof,	1	2 %		J,MX)
7418		of copper  Table, kitchen or other household articles and parts thereof, of copper; pot scourers and scouring or polishing pads, gloves and the like, of copper; sanitary ware and parts thereof, of copper:  Table, kitchen or other household articles and parts thereof; pot scourers and scouring		38	rree	(A,CA,E,IL,J,45% MX)
7418.11		or polishing pads, gloves and the like: Pot scourers and scouring or polishing pads, gloves and the like:				
7418.11.20	00	Of copper-zinc base alloys (brass)				(A,CA,E,IL,J,40% MX)
7418.11.40	00	Other	kg	3%	Free	(A,CA,E,IL,J,40% MX)
7418.19 7418.19.10	00	Other:  Coated or plated with precious  metals	kg	3%	Free	(A,CA,E,IL,J,50% MX)
7418.19.20		Other: Of copper-zinc base alloys (brass)		3%	Free	(A,CA,E,IL,J,40%
	3 0 9 0	Cooking and kitchen ware Other	kg		_	MX)
7418.19.50		Other		3%	Free	(A,CA,E,IL,J,40% MX)
	10	Cooking and kitchen ware	kg			
7418.20 7418.20.10	50	OtherSanitary ware and parts thereof: Of copper-zinc base alloys (brass)		3%	Free	(A,CA,E,IL,J,40%
	- 0		.5	- <del>-</del>		MX)
7418.20.50	00	Other	kg	3%	Free	(A,CA,E,IL,J,40% MX)

7419 7419.10.00	00	Other articles of copper: Chain and parts thereof	kg	3%	Free	(A,B,CA,E,IL, J,MX)	45%
7419.91.00	10	Cast, molded, stamped or forged, but not further worked		Free			46%
		specified or included	kg				
7419.99	50	Other	kg				
7419.99.15	00	Containers of a kind normally carried on the person, in the					
		pocket or in the handbag	doz	3%		(CA,E,IL,J) (MX) (s) 1/	110%
7419.99.30	0.0	Other: Coated or plated with				_	
		precious metal	kg	3%	Free	(A,CA,E,IL,J, MX)	65%
7419.99.50	10	Other Brass plumbing goods not		Free			46%
		elsewhere specified or included	kg				
	50	Other	kg				

 $<sup>\</sup>underline{1}/$  Rate suspended. See General Note 3(c)(iv).