

CHAPTER 74
COPPER AND ARTICLES THEREOF

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

* 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.

(e) Profiles

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, inter alia, 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.

7405.00		Master alloys of copper:					
7405.00.10	00 4	Containing by weight 5 percent or more but not more than 15 percent of phosphorus.....	kg.....	2.6%	Free (A,E,IL) 2% (CA)	12%	
7405.00.60		Other.....		6%	Free (A,E,IL) 4.8% (CA)	28%	
	30 7	Beryllium copper master alloy.....	kg				
	50 2	Other.....	kg				
7406		Copper powders and flakes:					
7406.10.00	00 3	Powders of non-lamellar structure.....	kg.....	5.4%	Free (A,E,IL) 4.8% (CA)	49%	
7406.20.00	00 1	Powders of lamellar structure; flakes.....	kg.....	3%	Free (A,E,IL) 2.7% (CA)	12%	
7407		Copper bars, rods and profiles:					
7407.10		Of refined copper:					
7407.10.10	00 0	Profiles.....	kg.....	6.3%	Free (A,E,IL) 5.6% (CA)	48%	
7407.10.50		Bars and rods.....		1%	Free (A,E,IL) 0.9% (CA)	7%	
	10 9	Having a rectangular cross section..	kg				
	50 0	Other.....	kg				
		Of copper alloys:					
7407.21		Of copper-zinc base alloys (brass):					
7407.21.10	00 7	Profiles.....	kg.....	3.2%	Free (A,E,IL) 2.8% (CA)	17%	
		Bars and rods:					
7407.21.50	00 8	Low fuming brazing rods.....	kg.....	2.2%	Free (A,E,IL) 1.9% (CA)	9%	
		Other:					
7407.21.70	00 4	Having a rectangular cross section.....	kg.....	1.9%	Free (A,E,IL) 1.7% (CA)	9%	
7407.21.90	00 0	Other.....	kg.....	2.2%	Free (A,E,IL) 1.9% (CA)	9%	
7407.22		Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver):					
7407.22.10	00 6	Profiles.....	kg.....	6.3%	Free (A,E,IL) 5.6% (CA)	48%	
7407.22.50	00 7	Bars and rods.....	kg.....	6.2%	Free (A,E,IL) 5.5% (CA)	48%	
7407.29		Other:					
7407.29.10	00 9	Profiles.....	kg.....	5.2%	Free (A,E,IL) 4.6% (CA)	49%	
7407.29.50	00 0	Bars and rods.....	kg.....	1.6%	Free (A,E,IL) 1.4% (CA)	9%	

7408	Copper wire:					
	Of refined copper:					
7408.11	Of which the maximum cross-sectional dimension exceeds 6 mm:					
7408.11.30	00 4	With a maximum cross-sectional dimension over 9.5 mm.....	kg.....	1%	Free (A,E,IL) 0.9% (CA)	7%
7408.11.60	00 7	With a maximum cross-sectional dimension over 6 mm but not over 9.5 mm.....	kg.....	4%	Free (A,E,IL) 3.6% (CA)	28%
7408.19.00	00 2	Other.....	kg.....	4%	Free (A,E,IL) 3.6% (CA)	28%
	Of copper alloys:					
7408.21.00	00 8	Of copper-zinc base alloys (brass).....	kg.....	4%	Free (A,E,IL) 3.6% (CA)	28%
7408.22		Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver):				
7408.22.10	00 5	Coated or plated with metal.....	kg.....	4.4%	Free (A,E,IL) 3.9% (CA)	28%
7408.22.50	00 6	Not coated or plated with metal.....	kg.....	4%	Free (A,E,IL) 3.6% (CA)	28%
7408.29		Other:				
7408.29.10	00 8	Coated or plated with metal.....	kg.....	4.4%	Free (A,E,IL) 3.9% (CA)	28%
7408.29.50	00 9	Not coated or plated with metal.....	kg.....	4%	Free (A,E,IL) 3.6% (CA)	28%
7409	Copper plates, sheets and strip, of a thickness exceeding 0.15 mm:					
	Of refined copper:					
7409.11		In coils:				
7409.11.10	00 7	Of a thickness of 5 mm or more.....	kg.....	6.7%	Free (A,E,IL) 6% (CA)	38%
7409.11.50		Of a thickness of less than 5 mm.....		1%	Free (A,E,IL) 0.9% (CA)	7.5%
		Of a width of 500 mm or more...	kg			
		Of a width of less than 500 mm.....	kg			
7409.19		Other:				
7409.19.10	00 9	Of a thickness of 5 mm or more.....	kg.....	4.7%	Free (A,E,IL) 4.2% (CA)	48%
		Of a thickness of less than 5 mm:				
7409.19.50	00 0	Of a width of 500 mm or more...	kg.....	1%	Free (A,E,IL) 0.9% (CA)	7.5%
7409.19.90	00 2	Of a width of less than 500 mm.....	kg.....	4.7%	Free (A,E,IL) 4.2% (CA)	48%
	Of copper-zinc base alloys (brass):					
7409.21.00		In coils.....		1.9%	Free (A,E,IL) 1.7% (CA)	9%
		Of a thickness of 5 mm or more.....	kg			
		Of a thickness of less than 5 mm:				
		Of a width of 500 mm or more...	kg			
		Of a width of less than 500 mm:				
		Of a thickness less than 1.6 mm.....	kg			
		Other.....	kg			
7409.29.00		Other.....		1.9%	Free (A,E,IL) 1.7% (CA)	9%
		Of a thickness of 5 mm or more.....	kg			
		Of a thickness of less than 5 mm:				
		Of a width of 500 mm or more...	kg			
		Of a width of less than 500 mm:				
		Of a thickness less than 1.6 mm.....	kg			
		Other.....	kg			

7409 (con.)		Copper plates, sheets and strip, of a thickness exceeding 0.15 mm (con.):					
		Of copper-tin base alloys (bronze):					
7409.31		In coils:					
7409.31.10	00 3	Of a thickness of 5 mm or more.....	kg.....	5.1%	Free (A,E,IL)	49%	
					4.5% (CA)		
7409.31.50	00 4	Of a thickness of less than 5 mm:					
		Of a width of 500 mm or more...	kg.....	1.7%	Free (A,E,IL)	9%	
					1.5% (CA)		
7409.31.90	00 6	Of a width of less than 500 mm.....	kg.....	5.1%	Free (A,E,IL)	49%	
					4.5% (CA)		
7409.39		Other:					
7409.39.10		Of a thickness of 5 mm or more.....	.....	5.1%	Free (A,E,IL)	49%	
	30 9	Of phosphor bronze.....	kg v				
		copper content..	kg				
	60 2	Other.....	kg v				
		copper content..	kg				
7409.39.50	00 6	Of a thickness of less than 5 mm:					
		Of a width of 500 mm or more...	kg.....	1.7%	Free (A,E,IL)	9%	
					1.5% (CA)		
7409.39.90		Of a width of less than 500 mm.....	.....	5.1%	Free (A,E,IL)	49%	
					4.5% (CA)		
	30 2	Of phosphor bronze.....	kg v				
		copper content..	kg				
	60 5	Other.....	kg v				
		copper content..	kg				
7409.40.00	00 4	Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel silver).....	kg.....	6.3%	Free (A,E,IL)	48%	
					5.6% (CA)		
7409.90		Of other copper alloys:					
7409.90.10		Of a thickness of 5 mm or more.....	.....	5.1%	Free (A,E,IL)	49%	
					4.5% (CA)		
	30 5	Of beryllium copper.....	kg v				
		copper content..	kg				
	60 8	Other.....	kg v				
		copper content..	kg				
7409.90.50		Of a thickness of less than 5 mm:					
		Of a width of 500 mm or more.....	.....	1.7%	Free (A,E,IL)	9%	
					1.5% (CA)		
	30 6	Of beryllium copper.....	kg v				
		copper content..	kg				
	60 9	Other.....	kg v				
		copper content..	kg				
7409.90.90		Of a width of less than 500 mm.....	.....	5.1%	Free (A,E,IL)	49%	
					4.5% (CA)		
	30 8	Of beryllium copper.....	kg v				
		copper content..	kg				
	60 1	Other.....	kg v				
		copper content..	kg				

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:				
	Not backed:				
7410.11.00	00 6	Of refined copper.....	kg.....	1%	Free (A,E,IL) 0.9% (CA)
7410.12.00		Of copper alloys.....		1%	Free (A,E,IL) 0.9% (CA)
	30 9	Of copper-zinc base alloys (brass)..	kg		
	60 2	Other.....	kg		
		Backed:			
7410.21		Of refined copper:			
7410.21.30		Copper clad laminates.....		5.3%	Free (A,E,IL) 4.7% (CA)
		Having a base wholly of plastics impregnated glass:			
	20 4	Having copper on one side only.....	m ²		
	40 0	Having copper on both sides.....	m ²		
	60 5	Other.....	m ²		
7410.21.60	00 1	Other.....	kg.....	1.5%	Free (A,E,IL) 1.3% (CA)
7410.22.00	00 3	Of copper alloys.....	kg.....	1.5%	Free (A,E,IL) 1.3% (CA)
7411		Copper tubes and pipes:			
7411.10		Of refined copper:			
7411.10.10	00 4	Seamless.....	kg.....	1.5%	Free (A,E,IL) 1.3% (CA)
7411.10.50	00 5	Other.....	kg.....	5%	Free (A,E,IL) 4.5% (CA)
		Of copper alloys:			
7411.21		Of copper-zinc base alloys (brass):			
7411.21.10	00 1	Seamless.....	kg.....	1.4%	Free (A,E,IL) 1.2% (CA)
7411.21.50	00 2	Other.....	kg.....	4.5%	Free (A,E,IL) 4% (CA)
7411.22.00	00 2	Of copper-nickel base alloys (cupro-nickel) or copper-nickel-zinc base alloys (nickel-silver).....	kg.....	5.1%	Free (A,E,IL) 4.5% (CA)
7411.29		Other:			
7411.29.10	00 3	Seamless.....	kg.....	1.4%	Free (A,E,IL) 1.2% (CA)
7411.29.50	00 4	Other.....	kg.....	4.5%	Free (A,E,IL) 4% (CA)
7412		Copper tube or pipe fittings (for example couplings, elbows, sleeves):			
7412.10.00	00 5	Of refined copper.....	kg.....	11.2%	Free (A,B,E,IL) 10% (CA)
7412.20.00		Of copper alloys.....		3.2%	Free (A,B,E,IL) 2.8% (CA) <u>1/</u>
		Of copper-zinc base alloys (brass):			
	20 9	Threaded.....	kg		
	40 5	Other.....	kg		
		Other:			
	60 0	Threaded.....	kg		
	80 6	Other.....	kg		

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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 into articles:					
7413.00.10	00 4	Stranded wire.....	kg.....	4.9%	Free (A,E,IL) 4.4% (CA) <u>1/</u>	35%
7413.00.50	00 5	Other.....	kg.....	4%	Free (A,E,IL) 3.6% (CA) <u>1/</u>	35%
7413.00.90	00 7	Fitted with fittings or made up into articles.....	kg.....	5.7%	Free (A,B,C,E,IL) 5.1% (CA) <u>1/</u>	45%
7414	Cloth (including endless bands), grill and netting, of copper wire; expanded metal of copper:					
7414.10	Endless bands, for machinery:					
	Fourdrinier wires, seamed or not seamed, suitable for use in paper-making machines:					
7414.10.30	00 7	With 94 or more wires to the lineal centimeter.....	m ².....v	Free		75%
7414.10.60	00 0	Other.....	kg m ².....v	10%	Free (A,E,IL) 9% (CA)	75%
7414.10.90	00 4	Other.....	kg m ².....v	4.1%	Free (A,E,IL) 3.6% (CA)	43%
7414.90.00	00 6	Other.....	kg.....	4.9%	Free (A,B,E,IL) 4.4% (CA)	43%
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 2	Nails and tacks, drawing pins, staples and similar articles.....	kg.....	5.1%	Free (A,E,IL) 4.5% (CA)	45%
	Other articles, not threaded:					
7415.21.00	00 9	Washers (including spring washers).....	kg.....	5.9%	Free (A,B,E,IL) 5.3% (CA) <u>1/</u>	45%
7415.29.00	00 1	Other.....	kg.....	4.7%	Free (A,B,E,IL) 4.2% (CA) <u>1/</u>	45%
	Other threaded articles:					
7415.31.00	00 7	Screws for wood.....	kg.....	5.5%	Free (A,B,E,IL) 4.9% (CA) <u>1/</u>	45%
7415.32	Other screws; bolts and nuts:					
7415.32.10	00 4	Muntz or yellow metal bolts.....	kg.....	1.4%	Free (A,B,E,IL) 1.2% (CA) <u>1/</u>	7%
	Other:					
7415.32.50	00 5	Having shanks, threads or holes 6 mm or more in diameter.....	kg.....	5.5%	Free (A,B,E,IL) 4.9% (CA) <u>1/</u>	45%
7415.32.90	00 7	Having shanks, threads or holes less than 6 mm in diameter.....	kg.....	6.3%	Free (A,B,E,IL) 5.6% (CA) <u>1/</u>	45%
7415.39.00	00 9	Other.....	kg.....	5.7%	Free (A,B,E,IL) 5.1% (CA) <u>1/</u>	45%

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7416.00.00	00 3	Copper springs.....	kg.....	5.7%	Free (A,B,E,IL) 5.1% (CA) <u>1/</u>	5%
7417.00.00	00 2	Cooking or heating apparatus of a kind used for domestic purposes, non-electric and parts thereof, of copper.....	kg.....	4.2%	Free (A,E,IL) 3.7% (CA)	45%
7418		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:				
7418.10		Table, kitchen or other household articles and parts thereof; pot scourers and scouring or polishing pads, gloves and the like:				
7418.10.10	00 7	Coated or plated with precious metals.....	kg.....	4%	Free (A,E,IL) 3.6% (CA)	50%
7418.10.20		Other:				
		Of copper-zinc base alloys (brass).....		3.7%	Free (A,E,IL) 3.3% (CA)	40%
	30 9	Cooking and kitchen ware.....	kg			
	90 6	Other.....	kg			
7418.10.50		Other.....		4.9%	Free (A,E,IL) 4.4% (CA)	40%
	10 6	Cooking and kitchen ware.....	No. v kg			
	50 7	Other.....	kg			
7418.20		Sanitary ware and parts thereof:				
7418.20.10	00 5	Of copper-zinc base alloys (brass).....	kg.....	3.7%	Free (A,E,IL) 3.3% (CA)	40%
7418.20.50	00 6	Other.....	kg.....	4.9%	Free (A,E,IL) 4.4% (CA)	40%
7419		Other articles of copper:				
7419.10.00	00 8	Chain and parts thereof.....	kg.....	5.1%	Free (A,B,E,IL) 4.5% (CA)	45%
7419.91.00		Other:				
		Cast, molded, stamped or forged, but not further worked.....		5%	Free (A,B,E,IL) 4.5% (CA) <u>1/</u>	46%
	10 8	Brass plumbing goods, not elsewhere specified or included.....	kg			
	50 9	Other.....	kg			
7419.99		Other:				
7419.99.15	00 5	Containers of a kind normally carried on the person, in the pocket or in the handbag.....	doz.....	7.8%	Free (E,IL) 7% (CA)	110%
7419.99.30	00 6	Coated or plated with precious metal.....	kg.....	10%	Free (A,E,IL) 7.6% (CA) <u>1/</u>	65%
7419.99.50		Other.....		5%	Free (A,B,E,IL) 4.5% (CA) <u>1/</u>	46%
	10 9	Brass plumbing goods not elsewhere specified or included.....	kg			
	50 0	Other.....	kg			

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