



BRONMETAL

Copper Cu

Product format:

Light tubes

Technical characteristics:

Round, square, rectangular and oval copper
for electrical applications



TOLERANCES ON OUTSIDE DIAMETER ROUND RUBING

Nominal outside diameter		Tolerances	
Greater than	Until included	Applicable to the average diameter	Diameter applicable to any ovalization including ^{a,b}
5 ^c	10	± 0,05	± 0,08
10	20	± 0,06	± 0,10
20	30	± 0,08	± 0,15
30	50	± 0,10	± 0,20
50	80	± 0,15	± 0,30
80	120	± 0,20	± 0,40
120	150	± 0,30	± 0,60

^a The tolerances of this column are not applicable to tubes with a ratio of outer diameter and the wall thickness (OD/t) > 30, or annealing metallurgical state tubes (H035/R200); see table 2

^b When the diameter is measured at a distance from the ends of the tube exceeding 100 mm or the equivalent to a nominal outer diameter (whichever is smaller), tolerance can be increased by a factor of 3, unless otherwise agreed.

^c Including the value 5.

WALL THICKNESS TOLERANCES

Nominal outside diameter or largest dimension across nominal		Tolerances on the wall thickness ^{b,c} in %				
Greater than	Until included	From 0.5 to 1 inclusive	Greater than 1 to 3 inclusive	Greater than 3 to 6 inclusive	Greater than 6 to 10 inclusive	Greater than
5 ^d	15	± 12	± 10	± 10	-	-
15	25	± 12	± 10	± 10	± 9	-
25	50	± 13	± 11	± 10	± 9	± 8
50	100	-	± 12	± 11	± 10	± 9
100	150	-	± 13	± 12	± 11	± 10

^a In case of a rectangular tube, the largest dimension across flats determines the thickness tolerance applies all wall thickness.

^b The wall thickness tolerance is defined as the maximum deviation of the wall thickness at any point, expressed in percentage of nominal wall thickness.

^c If it takes all the positive and negative tolerances, the given values must be multiplied by two

^d Including the value 5.

DIMENSIONAL TOLERANCES BETWEEN FACES OF TUBES SQUARE AND RECTANGULAR

Nominal dimensions across flats		Tolerances ^{a,b}
Greater than	Until included	
5°	15	± 0,10
15	25	± 0,15
25	50	± 0,20
50	80	± 0,25
80	120	± 0,30
120	150	± 0,35

^a The tolerances of this column are not applicable to pipes of state metallurgical annealing (H035/R200);
^b If it takes all the positive and negative tolerances, the given values must be multiplied by two.
^c Including the value 5.