

# Tolerances

Nominal Diameter		Tolerances of mean diameter	
above	up to and inc	applicable to the mean diameter	Applicable to any diameter including deviations from the circular shape for straight lengths <sup>a,b</sup>
3 <sup>c</sup>	10	± 0,06	± 0,12
10	20	± 0,08	± 0,16
20	30	± 0,12	± 0,24
30	50	± 0,15	± 0,30
50	100	± 0,20	± 0,50
100	200	± 0,50	± 1,00
200	300	± 0,75	± 1,50
300	450	± 1,00	± 2,00

<sup>a</sup> The tolerances indicated in this column are not applicable to

- tubes in rolls or coils
- tubes with OD/t ≥ 1,90
- tubes in an annealed state

<sup>b</sup> When the diameter is measured at a distance from the ends of the tube of up to 100mm or the equivalent of to a nominal diameter (choosing the lesser of both values), unless otherwise agreed, the tolerance is allowed to be increased by multiplying it by 3.

<sup>c</sup> Includes 3.

Nominal exterior diameter mm		Tolerances of nominal wall thickness t t (%)				
above	up to and inc	t from 0.3 mm up to and inc. 1 mm	t above 1 mm, up to and inc. 3 mm	t above 3 mm, up to and inc. 6 mm	t above 6 mm, up to and inc. 10 mm	t above 10mm
3 <sup>a</sup>	40	± 15	± 13	± 11	± 10	–
40	120	± 15	± 13	± 12	± 11	± 10
120	250	–	± 13	± 13	± 12	± 11

Nominal exterior diameter mm		Tolerances of nominal wall thickness t t (%)				
above	up to and inc	t from 0.3 mm up to and inc. 1 mm	t above 1 mm, up to and inc. 3 mm	t above 3 mm, up to and inc. 6 mm	t above 6 mm, up to and inc. 10 mm	t above 10mm
250	450	–	–	± 15	± 15	± 15
<sup>a</sup> Includes 3.						

### Tolerances of diameter including deviations from circular shape, tubes in rolls or coils

Nominal exterior diameter		Tolerances of nominal diameter including deviations from the circular shape	Applicable to inner diameter of winding min.
above	up to and inc		
3 <sup>a</sup>	6	± 0,30	400
6	10	± 0,50	600
10	20	± 0,70	800
20	30	± 0,90	1000
<sup>a</sup> Includes 3.			