

Tolerances

| Nominal Diameter | | Tolerances of mean diameter | | | | | |
|--|---------------|---------------------------------|---|----|----|--------|--------|
| above | | | Applicable to any diameter including deviations from | | 10 | ± 0,06 | ± 0,12 |
| abuve | up to and inc | applicable to the mean diameter | the circular shape for straight lengths ^{ab} | 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 | | | | |
| ^a The tolerances indicated in this column are not applicable to • tubes in rolls or coils • tubes with OD/T>50 • tubes in an annealed state | | | | | | | |
| ^b 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. | | | | | | | |
| ° Includes 3. | | | | | | | |



| Nominal | Nominal exterior diameter Tolerances of nominal wall thickness t (%) | | | | | | | | | | | |
|---------|--|---------------------|-------------------------|-------------------------|-------------------------|--------------|-------|------|------|------|------|---|
| | mm | t from 0.3 mm up to | t above 1 mm, up to and | t above 3 mm, up to and | t above 6 mm, up to and | A chour down | | | | | | |
| above | up to and inc | and inc. 1 mm | inc. 3 mm | inc. 6 mm | inc. 10 mm | t above 10mm | 3ª 40 | ± 15 | ± 13 | ± 11 | ± 10 | - |
| 40 | 120 | ± 15 | ± 13 | ± 12 | ± 11 | ± 10 | | | : | | | |
| 120 | 250 | _ | ± 13 | ± 13 | ± 12 | ± 11 | | | | | | |
| 250 | 450 | _ | _ | ± 15 | ± 15 | ± 15 | | | | | | |
| | ^a Includes 3. | | | | | | | | | | | |

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

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