

DIN EN 1254-5:2021-10 (E)

Copper and copper alloys - Plumbing fittings - Part 5: Capillary fittings with short ends for brazing to copper tubes

| Contents | | Page |
|-------------------------|---|-------------|
| European foreword | | 3 |
| Introduction | | 4 |
| 1 | Scope | 5 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 7 |
| 4 | Product characteristics | 7 |
| 4.1 | Internal pressure | 7 |
| 4.2 | Tightness | 7 |
| 4.3 | Release of dangerous substances | 7 |
| 4.4 | Durability | 7 |
| 4.5 | Dimensional tolerances of diameters | 8 |
| 4.6 | Wall thickness for short ends for capillary brazing to copper tubes | 9 |
| 4.7 | Wall thickness at threaded portions of adaptor fittings | 12 |
| 4.8 | Dimensions of tail pipe ends for swivel fittings | 12 |
| 4.9 | Dimensions of gas union connectors | 12 |
| 4.10 | Threaded end dimensions | 12 |
| 4.11 | Other adapter ends (not defined in EN 1254-20:2021) | 12 |
| 4.12 | Length of engagement | 13 |
| 4.13 | Bore dimensions | 14 |
| 4.14 | Tube abutment | 15 |
| 4.15 | Alignment of the fitting ends | 15 |
| 4.16 | Shapes for tightening systems | 15 |
| 4.17 | Surface condition | 15 |
| 4.18 | Surface cleanliness for medical gases | 15 |
| 5 | Testing, assessment and sampling methods | 16 |
| 5.1 | General | 16 |
| 5.2 | Internal pressure | 16 |
| 5.3 | Tightness: Integrity of fabricated fitting bodies or having an 'as cast' microstructure | 16 |
| 5.4 | Durability | 17 |
| 5.5 | Dimensional tolerances of diameters | 17 |
| 5.6 | Wall thickness for short ends for capillary brazing to copper tubes | 17 |
| 5.7 | Wall thickness at threaded portions of adaptor fittings | 17 |
| 5.8 | Dimensions of tail pipe ends for swivel fittings | 17 |
| 5.9 | Dimensions of gas union connectors | 17 |
| 5.10 | Threaded end dimensions | 18 |
| 5.11 | Length of engagement | 18 |
| 5.12 | Bore dimensions | 18 |
| 5.13 | Alignment of the fitting ends | 18 |
| 6 | Evaluation of conformity | 18 |
| 6.1 | General | 18 |
| 6.2 | Type testing | 18 |
| 6.3 | Factory production control (FPC) | 21 |
| 7 | Designation | 24 |

| | | |
|----------|---|-----------|
| 8 | Marking, labelling and packaging | 24 |
| | Annex A (normative) Operating temperatures and corresponding maximum operating pressures ... | 25 |
| | Bibliography | 26 |