

# DIN EN 12449:2023-08 (E)

## Copper and copper alloys - Seamless, round tubes for general purposes

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Introduction .....		4
1	Scope .....	5
2	Normative references .....	5
3	Terms and definitions .....	6
4	Designations .....	6
4.1	Material .....	6
4.2	Material condition .....	7
4.3	Product .....	7
5	Ordering information .....	8
6	Requirements .....	9
6.1	Composition .....	9
6.2	Mechanical properties .....	9
6.3	Dimensions and tolerances .....	9
6.4	Surface quality .....	10
6.5	Technological requirements .....	10
7	Sampling .....	11
7.1	General .....	11
7.2	Analysis .....	11
7.3	Mechanical tests and stress corrosion resistance test .....	11
8	Test methods .....	12
8.1	Analysis .....	12
8.2	Tensile test .....	12
8.3	Hardness test .....	12
8.4	Technological tests .....	12
8.5	Freedom from defects tests .....	12
8.6	Retests .....	13
8.7	Rounding of results .....	13
9	Declaration of conformity and inspection documentation .....	13
9.1	Declaration of conformity .....	13
9.2	Inspection documentation .....	13
10	Marking, packaging, labelling .....	14
Bibliography .....		51