

DIN EN 12166:2024-12 (E)

Copper and copper alloys - Wire for general purposes

Contents		Page
European foreword		3
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Designation	7
4.1	Material	7
4.1.1	General	7
4.1.2	Symbol	7
4.1.3	Number	7
4.2	Material condition	7
4.3	Product	7
5	Ordering information	9
6	Requirements	11
6.1	Composition	11
6.2	Mechanical properties	11
6.3	Grain size	11
6.4	Dimensions and tolerances	11
6.4.1	Diameter or width across-flats	11
6.4.2	Shape tolerances	11
6.4.3	Corner and edge geometry (wire with square and rectangular cross-section only)	11
6.5	Joins	12
6.6	Surface quality	12
6.7	Internal inclusion	12
7	Sampling	13
7.1	General	13
7.2	Analysis	13
7.3	Tensile, hardness and grain size tests	13
8	Test methods	13
8.1	Analysis	13
8.2	Tensile test	13
8.3	Hardness test	14
8.4	Estimation of average grain size	14
8.5	Retests	14
8.6	Rounding of results	15
9	Certificate of compliance and inspection documentation	15
9.1	Certificate of compliance	15
9.2	Inspection documentation	15
10	Marking, packaging, labelling	15
Annex A (informative)	Position of wire cross-section within a coil, reel, spool or drum	45

Annex ZA (informative) Relationship between this European Standard and the essential requirements of Directive 2014/68/EU (Pressure equipment Directive) aimed to be covered	47
Bibliography	48