# ISO 12224-1:2024-05 (E)

## Solder wire, solid and flux-cored - Specification and test methods - Part 1: Classification and performance requirements

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Terms and definitions ..... 1

4 Classification and designation ..... 1
4.1 Solder alloy designation ..... 1
4.2 Flux classification ..... 2
4.3 Designation of flux-cored solder wire ..... 2

5 Requirements ..... 2
5.1 Solder alloy composition of solid and flux-cored solder wire ..... 2
5.2 Flux composition of flux-cored solder wire ..... 2
5.3 Flux content ..... 2
5.4 Dimensions and tolerances ..... 3
5.5 Copper corrosion test ..... 3
5.6 Influence of flux vapours on insulation resistance (applicable only to flux-cored solder wires containing type 1 and type 22 fluxes) ..... 4

6 Sampling ..... 4
6.1 Sampling for chemical analysis of the solder ..... 4
6.2 Sampling for tests to determine the properties of the flux core (i.e. tests as described in the ISO 9455 series) ..... 4
6.3 Sampling for tests to determine the flux content and the diameter of the flux-cored solder wire ..... 4

7 Marking, labelling and packaging ..... 4

Annex A (normative) Method for the solvent extraction of the flux from flux-cored solder wire ..... 6

Annex B (normative) Measurement of mean diameter of wire ..... 9

Annex C (informative) Guidance on the use of test methods ..... 10

Bibliography ..... 11