ISO 12725:2019 (E)

Nickel and nickel alloy castings

Contents

Foreword

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Alloy identification
- 5 General requirements for delivery
 - 5.1 Information to be supplied by the purchaser
 - 5.2 Additional information to be supplied

6 Manufacture

- 6.1 Melting
- 6.2 Heat treatment
- 6.3 Welding
- 6.3.1 General
- 6.3.2 Restriction

7 Requirements

- 7.1 Composition
- 7.2 Mechanical properties
- 7.3 Supplementary requirements
- 8 Marking
- 9 Supplementary requirements
- Annex A (informative) Rules for nickel and nickel alloys identification based on chemical symbols
 - A.1 Basis of identification
 - A.2 Identification of unalloyed nickel
 - A.3 Identification of alloys

Annex B (informative) Supplementary requirements

- B.1 General
- B.2 Manufacturing considerations
- B.2.1 Manufacture process
- B.2.2 Mass of test lots
- B.2.3 Mass and tolerance on mass
- B.3 Determination of the content of residual elements
- B.4 Heat treatment
- B.4.1 Type of heat treatment
- B.4.2 Details of the treatment
- B.5 Production welds
- B.5.1 Prior agreement relating to major production welds
- B.5.2 Weld maps (sketches)
- B.6 Non-destructive tests
- B.6.1 Liquid penetrant testing
- B.6.2 Radiographic testing
- B.7 Intergranular corrosion tests
- B.8 Pressure tightness