# ISO 17887:2025-08 (E)

## Traceability of rare earths in the supply chain from separated products to permanent magnets

## Contents

Page


**Forward** ..... **iv**

**Introduction** ..... **v**

**1 Scope** ..... **1**

**2 Normative references** ..... **1**

**3 Terms and definitions** ..... **1**

**4 Planning a traceability system** ..... **5**
4.1 General ..... 5
4.2 Documented information ..... 5
4.3 Counterparties ..... 6
4.4 Unique identifier (UI) ..... 6

**5 Operation of traceability system** ..... **6**
5.1 General ..... 6
5.2 Chain of custody ..... 7
5.2.1 General ..... 7
5.2.2 Chain of custody requirements ..... 7
5.3 Identification ..... 8

**6 Distributed-ledger-based traceability platform** ..... **9**
6.1 Fundamental attributes ..... 9
6.2 Basic support ..... 9
6.3 Supply chain node ..... 9
6.4 Transaction ..... 9
6.5 Context ..... 10
6.5.1 General ..... 10
6.5.2 Trusted supply chain nodes ..... 10
6.5.3 Other supply chain nodes ..... 10
6.5.4 Other contextual data ..... 10
6.6 Events ..... 10
6.7 Transformation ..... 10
6.8 Data privacy and security ..... 11
6.8.1 Privacy ..... 11
6.8.2 Security ..... 11
6.9 Interoperability ..... 11

**7 Performance evaluation** ..... **12**

**8 Improvement** ..... **12**
8.1 General ..... 12
8.2 Nonconformity and corrective actions ..... 12

**Annex A** (informative) **Supply chain nodes with and without transformations** ..... **13**

**Bibliography** ..... **16**