

# ISO 23664:2021-10 (E)

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

---

<b>Contents</b>		<b>Page</b>
Foreword .....		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 .....	5
4.4	Unique identifier (UI) .....	5
5	Operation of traceability system .....	6
5.1	General .....	6
5.2	Primary producer .....	6
5.3	Mass balance .....	6
5.4	Identification .....	6
5.5	Blending and mixing .....	7
5.6	Recycled rare earth material .....	7
5.7	Transactions .....	7
5.7.1	General .....	7
5.7.2	Transaction information .....	7
6	Information transmitted with shipments between adjacent nodes .....	8
6.1	Mine .....	8
6.2	Beneficiation plant .....	10
6.3	Hydrometallurgical plant .....	11
6.4	Trader .....	13
6.5	Separation plant .....	14
7	Performance evaluation .....	16
8	Improvement .....	16
8.1	General .....	16
8.2	Nonconformity and corrective actions .....	16
Bibliography .....		17