

DIN EN ISO 9351:2025-07 (E)

Galvanic anodes for cathodic protection in seawater and saline sediments (ISO 9351:2025)

Contents		Page
Foreword		iv
Introduction		v
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Symbols and abbreviations		4
4.1 Symbols.....		4
4.2 Abbreviations.....		5
5 Competence of personnel		5
6 Galvanic anode materials and their properties		5
6.1 General.....		5
6.2 Anode alloy composition.....		5
6.3 Electrochemical properties.....		6
6.4 Electrochemical testing.....		6
6.4.1 General.....		6
6.4.2 Performance testing.....		6
6.4.3 Short-term testing for quality control.....		7
6.5 Anode consumption rate.....		7
7 Anode design and acceptance criteria		8
7.1 General.....		8
7.2 Chemical composition.....		9
7.3 Electrochemical properties.....		9
7.4 Anode shape.....		9
7.5 Physical properties.....		9
7.6 Anode core materials.....		10
7.7 Cable connections to anodes.....		11
8 Environmental impact		11
Annex A (informative) Seawater		13
Annex B (normative) Physical tolerances for galvanic anodes		14
Annex C (informative) Composition and performance properties for galvanic anodes		19
Annex D (informative) Description of various electrochemical tests		26
Annex E (informative) Environmental impact considerations		29
Annex F (informative) Inspection and test plan (ITP)		33
Bibliography		40