

# DIN EN ISO 17348:2016-07 (E)

Petroleum and natural gas industries - Materials selection for high content CO<sub>2</sub> environment for casings, tubings and downhole equipment (ISO 17348:2016); English version EN ISO 17348:2016

## Contents

	Page
<b>Foreword</b>	<b>iv</b>
<b>Introduction</b>	<b>v</b>
<b>1 Scope</b>	<b>1</b>
<b>2 Normative references</b>	<b>1</b>
<b>3 Terms, definitions and abbreviated terms</b>	<b>2</b>
3.1 Terms and definitions	2
3.2 Abbreviated terms	5
<b>4 Guidelines for corrosion evaluation</b>	<b>5</b>
4.1 General	5
4.2 Corrosion by produced or injected fluids — Corrosion likelihood	6
4.2.1 Gas production wells	7
4.2.2 Injection wells	7
<b>5 Materials selection</b>	<b>7</b>
5.1 Gas injection with high CO <sub>2</sub> content	8
5.2 Water alternating gas with high CO <sub>2</sub> content (WAG) injection systems	8
5.3 Gas production wells with high CO <sub>2</sub> content	9
5.4 Production casing	9
5.5 Sealing and packers	10
5.5.1 General	10
5.5.2 Non-metallic seals and packing elements	10
5.6 Liners	11
<b>6 Corrosion control</b>	<b>12</b>
6.1 Corrosion prevention	12
6.1.1 Completion with CRA and cladding	12
6.1.2 Completion with GRE liners	12
6.2 Corrosion management	12
6.3 Internal corrosion allowance	12
<b>Annex A (informative) Example of material selection for gas production</b>	<b>13</b>
<b>Bibliography</b>	<b>16</b>