

DIN EN ISO 15156-1:2025-02 (E)

Petroleum and natural gas industries - Materials for use in H₂S-containing environments in oil and gas production - Part 1: General principles for selection of cracking-resistant materials (ISO 15156-1:2020)

| Contents | | Page |
|---------------------------|---|-------------|
| European foreword | | 3 |
| Foreword | | 4 |
| Introduction | | 5 |
| 1 | Scope | 6 |
| 2 | Normative references | 7 |
| 3 | Terms and definitions | 7 |
| 4 | Abbreviated terms | 11 |
| 5 | General principles | 11 |
| 6 | Evaluation and definition of service conditions to enable material selection | 12 |
| 7 | Selection of materials resistant to SSC/SCC in the presence of sulfides from existing lists and tables | 13 |
| 8 | Qualification of materials for H₂S service | 13 |
| 8.1 | Material description and documentation | 13 |
| 8.2 | Qualification based upon field experience | 13 |
| 8.3 | Qualification based upon laboratory testing | 13 |
| 8.3.1 | General | 13 |
| 8.3.2 | Sampling of materials for laboratory testing | 14 |
| 8.3.3 | Selection of laboratory test methods | 14 |
| 8.3.4 | Conditions to be applied during testing | 14 |
| 8.3.5 | Acceptance criteria | 14 |
| 9 | Report of the method of selection or qualification | 14 |
| Bibliography | | 16 |