## ISO 16010:2019 (E)

## Elastomeric seals — Material requirements for seals used in pipes and fittings carrying gaseous fuels and hydrocarbon fluids

## Contents

Foreword

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Classification
- 5 Requirements
  - 5.1 Materials
  - 5.2 Finished-seal requirements
  - 5.2.1 Dimensional tolerances
  - 5.2.2 Imperfections and defects
  - 5.2.3 Hardness
  - 5.2.4 Tensile strength and elongation at break
  - 5.2.5 Compression set in air
  - 5.2.5.1 General
  - 5.2.5.2 Compression set at 23 °C and 70 °C
  - 5.2.5.3 Low-temperature compression set at -5 °C
  - 5.2.6 Accelerated ageing in air
  - 5.2.7 Stress relaxation in compression
  - 5.2.8 Volume change in liquid B
  - 5.2.9 Volume change in oil
  - 5.2.10 Ozone resistance
  - 5.2.11 Compression set at -15 °C
- 6 Test pieces and temperature
  - 6.1 Preparation of test pieces
  - 6.2 Test temperature
- 7 Quality assurance
- 8 Storage
- 9 Designation
- 10 Marking and labelling
- Annex A (informative) Quality assurance
  - A.1 Type tests
  - A.2 Product-control testing
  - A.3 Sampling for product-control testing
- Annex B (informative) Guidance on storage of seals

Page count: 11