ISO 6194-4:2009-03 (E)

Rotary shaft lip-type seals incorporating elastomeric sealing elements - Part 4: Performance test procedures

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms, definitions and symbols 2
3.1 Terms and definitions 2
3.2 Symbols 2

4 Pre-test procedure 2

5 Dynamic normal-temperature test 2
5.1 Test apparatus 2
5.2 Installation 5
5.3 Test conditions 5
5.4 Test procedure 5
5.5 Post-test measurements 5
5.6 Recording 5
5.7 Acceptance criteria 5

6 Dynamic low-temperature test 5
6.1 General 5
6.2 Test apparatus 6
6.3 Installation 7
6.4 Test procedure 7
6.5 Post-test measurements 7
6.6 Recording 7
6.7 Acceptance criteria 7

7 Material testing of elastomeric components 7
7.1 Elastomeric material requirements 7
7.2 Density 8
7.3 Hardness 8
7.4 Compression set 8
7.5 Fluid immersion 8
7.6 Dry-heat ageing in air 8
7.7 Stiffness at low temperature 9
7.8 Recording 9

8 Identification statement (Reference to this part of ISO 6194) 9

Annex A (informative) Typical example of a seal test report for the dynamic test 10

Annex B (informative) Typical example of a seal test report for the dynamic low-temperature test 13

Annex C (informative) Typical example of an elastomeric material test report 15

Bibliography 17