ISO 19880-8:2019-10 (E)

Gaseous hydrogen - Fuelling stations - Part 8: Fuel quality control

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Abbreviated terms 3

5 Hydrogenspecifications 4

6 Quality control approaches 4
6.1 General 4
6.2 Sampling 4
6.3 Monitoring 4

7 Potential sources of impurities 4

8 Hydrogen quality assurance methodology 4
8.1 General 4
8.2 Prescriptive methodology 5
8.3 Risk assessment methodology 5
8.4 Impact of impurities on fuel cell powertrain 7

9 Routine quality control 8

10 Non-routine quality control 8

11 Remedial measures and reporting 9

Annex A (Informative) Impact of impurities on fuel cell powertrains 10

Annex B (informative) Example of risk assessment 14

Annex C (informative) Example of Japanese hydrogen quality guidelines 24

Annex D (informative) Typical hydrogen fuelling station supply chain 33

Annex E (informative) Routine hydrogen quality analysis 37

Bibliography 39