DIN EN ISO 18417:2020-12 (Englisch)

Iodine charcoal sorbents for nuclear facilities - Method for defining sorption capacity index (ISO 18417:2017)

Contents

Page

European foreword 3

Foreword 4

Introduction 5

1 Scope 6

2 Normative references 6

3 Terms and definitions 6

4 Principles of the method 7

5 Preparation of the test 9
5.1 General 9
5.2 Removal of air impurity and humidity into the installation 9
5.3 Radioactive methyl iodide used for sorbent testing 10
5.4 Preparation of sorbent samples 10
5.5 Measuring devices 11
5.6 Conditions for achieving equilibrium during the test 11
5.7 Safe conditions for workers and members of the public 11

6 Test conditions 12

7 Sorbent testing 12

8 Test performance 14

9 Determination of the sorption capacity index 15
9.1 Sorption capacity index determination 15
9.2 Calculating sorption capacity index 16
9.3 Uncertainties of measurements 17

10 Documenting test results 18

Annex A (normative) Format of test report (for the customer) 19

Annex B (normative) Format of internal test report 20

Annex C (normative) Measurements results 21

Annex D (informative) Example of expected results for sorption capacity index 22

Bibliography 24