DIN EN 13834:2020-11 (E)

Cookware - Ovenware for use in traditional domestic ovens

Contents

Page

European foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 6

4 Materials 8

5 General conditions for testing 8

6 Construction 8
6.1 General 8
6.1.1 Introduction 8
6.1.2 Stability 8
6.1.3 Hygiene 8
6.1.4 Mechanical hazards 8
6.1.5 Handle position with respect to ovenware 8
6.1.6 Lid design 8
6.1.7 Lid knob design 9
6.1.8 Thermal shock resistance of brittle materials 9
6.1.9 Heat resistance 9
6.1.10 Resistance to leakage 9
6.2 Geometry 9
6.2.1 General 9
6.2.2 Capacity 9
6.2.3 Dimensions 9

7 Furniture 9
7.1 General 9
7.2 Materials 10
7.3 Heat resistance 10
7.4 Fatigue resistance 10

8 Coatings 10
8.1 General 10
8.2 Non-stick coatings 10
8.2.1 Cross-cut adhesion test 10
8.2.2 Non-stick performance tests 10
8.3 Vitreous enamel on steel and cast iron 11
8.3.1 Boiling citric acid test 11
8.3.2 Boiling water test 11
8.3.3 Thermal shock test 11
8.3.4 Resistance to impact 11
8.4 Adhesion test for vitreous enamel on aluminium 11
8.5 Hard anodized aluminium 11
8.5.1 Thickness 11
8.5.2 Stain resistance 11
8.5.3 Alkali resistance 11
8.5.4 Hardness 11
8.6 Organic coatings - Cross-cut adhesion test 11

8.7 Tinning 12
8.8 Easy clean coatings 12

9 Stability - Deformation test 12
9.1 Central loading 12
9.2 Eccentric loading 12
9.3 Tear resistance 12

10 Product Information 12
10.1 Point of sale information 12
10.2 Care and use instructions 13

Annex A(normative) Test for heat resistance of ovenware and furniture 14

A.1 Apparatus 14
A.2 Procedure 14

Annex B(normative) Handle fatigue test 15

B.1 Apparatus 15
B.2 Procedure 17

Annex C(normative) Non-stick performance test for bakeware - Easy clean performance test for metallic and ceramic bakeware - Corrosion test for tinned bakeware 18

C.1 Procedure 18

Annex D(normative) Non-stick performance test for roasting and gratin dishes - Easy clean performance test for roasting and gratin dishes - Corrosion test for tinned roasting and gratin dishes 19

D.1 Procedure 19

Annex E(normative) Resistance to staining of hard anodized coatings 20

E.1 Apparatus 20
E.2 Reagents 20
E.3 Procedure 20

Annex F(normative) Resistance to alkali of hard anodized aluminium 21

F.1 Apparatus 21
F.2 Reagents 21
F.3 Procedure 21

Annex G(normative) Central loading test 22

G.1 Apparatus 22
G.2 Procedure 22

Annex H(normative) Eccentric loading test 25

H.1 Apparatus 25
H.2 Procedure 25

Annex I(normative) Tearing test for flexible ovenware 29

I.1 Apparatus 29
I.2 Procedure 29