DIN EN ISO 4619:2019-03 (E)

Driers for paints and varnishes (ISO 4619:2018)

Contents

Page

European foreword ... **4**

Foreword ... **5**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Descriptions ... **7**
4.1 Solid driers ... 7
4.2 Liquid driers ... 7
4.3 Metals used ... 7
4.4 Acids used ... 7

5 Requirements and test methods ... **7**

6 Sampling ... **8**

7 Methods of test for solid driers ... **8**
7.1 Appearance and consistency ... 8
7.2 Colour ... 8
7.3 Solubility (miscibility) in solvents, raw linseed oil or other drying media ... 9
7.4 Stability of solution ... 9
7.5 Suspended solid matter ... 9
7.6 Volatile matter ... 10
7.7 Acidity ... 10
7.7.1 Principle ... 10
7.7.2 Reagents ... 10
7.7.3 Apparatus ... 10
7.7.4 Preparation of the ion-exchange column ... 11
7.7.5 Procedure ... 12
7.7.6 Expression of results ... 12

8 Methods of test for liquid driers ... **12**
8.1 Appearance ... 12
8.2 Colour ... 12
8.3 Solubility (miscibility) in solvents, raw linseed oil or other drying media ... 12
8.4 Stability of solution ... 13
8.5 Viscosity ... 13

9 Methods for determination of metal content of driers containing only one metal ... **14**
9.1 General ... 14
9.2 Cobalt [ethylene diaminetetraacetic acid (EDTA) titrimetric method] ... 14
9.2.1 Reagents ... 14
9.2.2 Procedure ... 15
9.2.3 Expression of results ... 15
9.3 Manganese (EDTA titrimetric method) ... 16
9.3.1 Reagents ... 16
9.3.2 Procedure ... 16
9.3.3 Expression of results ... 16
9.4 Zinc (EDTA titrimetric method) ... 17
9.4.1 Reagents ... 17
9.4.2 Procedure ... 17
9.4.3 Expression of results ... 17

9.5 Calcium (EDTA titrimetric method) 17
9.5.1 Reagents 17
9.5.2 Procedure 18
9.5.3 Expression of results 18
9.6 Iron (Iodometric method) 18
9.6.1 Principle 19
9.6.2 Reagents 19
9.6.3 Procedure 19
9.6.4 Expression of results 20
9.7 Zirconium (EDTA titrimetric method) 20
9.7.1 Reagents 20
9.7.2 Procedure 20
9.7.3 Expression of results 21
9.8 Barium 21
9.8.1 General 21
9.8.2 Method A (gravimetric method) 21
9.8.3 Method B (acidimetric method) 22
10 Methods for determination of metal contents of mixed driers 23
11 Test report 24
Bibliography 25