

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