

DIN EN ISO 1247-1:2023-08 (E)

Aluminium pigments for paints - Part 1: General aluminium pigments (ISO 1247-1:2021)

Contents		Page
European foreword	.....	4
Foreword	.....	5
Introduction	.....	7
1 Scope	.....	8
2 Normative references	.....	8
3 Terms and definitions	.....	8
4 Description	.....	9
5 Classification	.....	9
6 Requirements and test methods	.....	9
7 Sampling	.....	10
8 Determination of non-volatile-matter content	.....	10
8.1 Apparatus	.....	10
8.2 Procedure	.....	11
8.2.1 Number of determinations	.....	11
8.2.2 Test portion	.....	11
8.2.3 Determination	.....	11
8.3 Expression of results	.....	11
9 Determination of matter soluble in organic solvents	.....	12
10 Comparison of appearance	.....	14
10.1 Test portion	.....	14
10.2 Assessment	.....	14
11 Determination of residue on sieve	.....	14
11.1 Reagent	.....	14
11.2 Apparatus	.....	14
11.3 Procedure	.....	15
11.3.1 Test portion	.....	15
11.3.2 Determination	.....	15
11.4 Expression of results	.....	15
12 Determination of water-covering capacity	.....	15
12.1 Principle	.....	15
12.2 Reagents	.....	16
12.3 Apparatus	.....	16
12.4 Pre-treatment of sample	.....	17
12.5 Preparation of trough	.....	17
12.6 Procedure	.....	17
12.6.1 Test portion	.....	17
12.6.2 Determination	.....	18
12.7 Expression of results	.....	18
12.8 Precision	.....	19
12.8.1 Repeatability	.....	19
12.8.2 Reproducibility	.....	19

13	Determination of leafing power	19
13.1	Reagents.....	19
13.2	Apparatus.....	19
13.3	Procedure	20
	13.3.1 Test portion	20
	13.3.2 Determination.....	20
13.4	Expression of results.....	21
13.5	Precision.....	22
	13.5.1 Repeatability.....	22
	13.5.2 Reproducibility.....	22
14	Determination of water content	22
14.1	General.....	22
14.2	Electrometric titration method.....	22
14.3	Visual titration method.....	22
14.4	Expression of results.....	22
15	Determination of lead (spectrophotometric method)	23
15.1	Reagents.....	23
15.2	Apparatus.....	23
15.3	Procedure.....	24
	15.3.1 Test portion	24
	15.3.2 Blank test.....	24
	15.3.3 Determination.....	24
16	Determination of hiding power	24
16.1	Apparatus and materials.....	24
16.2	Procedure	25
17	Determination of metallic impurities with flame atomic absorption spectrometric method	25
17.1	Determination range.....	25
17.2	Principle.....	25
17.3	Reagent.....	25
17.4	Apparatus.....	27
17.5	Procedure.....	27
	17.5.1 Test portion	27
	17.5.2 Blank experiment.....	27
	17.5.3 Preparation of the test sample.....	27
	17.5.4 Treatment of the different elements in the sample.....	28
	17.5.5 Spectrometric measurement.....	28
	17.5.6 Expression of results.....	29
18	Test report	29
	Bibliography	30