

DIN EN 17200:2024-05 (E)

Construction products: Assessment of release of dangerous substances - Analysis of inorganic substances in eluates and digests - Analysis by inductively coupled plasma mass spectrometry (ICP-MS)

Contents		Page
	European foreword	4
	Introduction	5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Abbreviations	8
5	Principle	9
6	Interferences	9
6.1	General	9
6.2	Spectral interferences	9
6.2.1	Isobaric elemental interferences	9
6.2.2	Isobaric molecular and doubly charged ion interferences	9
6.3	Non-spectral interferences	10
7	Reagents	10
8	Apparatus	13
9	Procedure	14
9.1	Test sample	14
9.2	Test portion	14
9.3	Instrument set up	14
9.4	Calibration	15
9.4.1	Calibration function	15
9.4.2	Standard addition calibration	15
9.4.3	Determination of correction factors	15
9.4.4	Variable isotope ratio	15
9.5	Sample measurement	15
10	Calculation	16
10.1	Calculation for digests of construction products	16
10.2	Calculation for eluates of construction products	16
11	Expression of results	16
12	Performance characteristics	16
12.1	General	16
12.2	Blank	17
12.3	Calibration check	17
12.4	Internal standard response	17
12.5	Interference	17
12.6	Recovery	17

12.7	Indicative values for MDL	17
13	Test performance	17
14	Test report	18
Annex A (informative) Validation results for analysis of inorganic substances in eluates and digests from construction products		20
A.1	General	20
A.2	Precision data for analysis of eluates from construction products	20
A.3	Precision data for analysis of aqua regia digests from construction products	27
Annex B (informative) Indicative values for MDL		34
Bibliography		35