

# DIN EN ISO 21268-1:2020-09 (E)

Soil quality - Leaching procedures for subsequent chemical and ecotoxicological testing of soil and soil-like materials - Part 1: Batch test using a liquid to solid ratio of 2 l/kg dry matter (ISO 21268-1:2019)

---

<b>Contents</b>		Page
European foreword	.....	3
Foreword	.....	4
Introduction	.....	5
<b>1</b>	<b>Scope</b> .....	<b>6</b>
<b>2</b>	<b>Normative references</b> .....	<b>6</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>7</b>
<b>4</b>	<b>Principle</b> .....	<b>8</b>
<b>5</b>	<b>Reagents</b> .....	<b>8</b>
<b>6</b>	<b>Apparatus</b> .....	<b>9</b>
<b>7</b>	<b>Sample pretreatment</b> .....	<b>10</b>
	7.1 Preparation of laboratory sample and specification of particle size.....	10
	7.2 Preparation of test sample.....	11
	7.3 Determination of dry matter content and water content.....	11
	7.4 Preparation of the test portion.....	12
<b>8</b>	<b>Procedure</b> .....	<b>12</b>
	8.1 Temperature.....	12
	8.2 Description of the procedure.....	12
	8.2.1 Preparation of the eluent.....	12
	8.2.2 Leaching step.....	12
	8.2.3 Liquid/Solid separation step.....	13
	8.3 Further preparation of the eluate for analysis.....	14
	8.4 Blank test for the application of the leaching procedure.....	14
<b>9</b>	<b>Calculation</b> .....	<b>15</b>
<b>10</b>	<b>Test report</b> .....	<b>15</b>
<b>11</b>	<b>Analytical determination</b> .....	<b>16</b>
	11.1 General.....	16
	11.2 Blank test information.....	16
<b>12</b>	<b>Performance characteristics</b> .....	<b>16</b>
	12.1 General.....	16
	12.2 Validation results obtained for DIN 19529.....	16
	12.2.1 General.....	16
	12.2.2 Results for test material containing inorganic substances.....	17
	12.2.3 Results for test materials containing organic substances.....	17
<b>Annex A</b>	<b>(informative) Information on the influence on the test results of the parameters that affect leaching</b> .....	<b>25</b>
<b>Annex B</b>	<b>(informative) Example of a specific liquid-solid separation procedure for soil samples (applying only to the leaching of inorganic substances)</b> .....	<b>28</b>
<b>Annex C</b>	<b>(informative) Calculation of centrifugation duration depending on centrifugation speed and rotor dimensions</b> .....	<b>30</b>
<b>Bibliography</b>	.....	<b>32</b>