

Test name:	PrEN 14429 pH static leach test	PrEn 14405 Percolation test	EN 14870 DTPA extraction	ISO/AWI 21268 – 3 Percolation test	ISO/AWI 21268 – 1 Low L/S extraction	ISO/AWI 21268 – 2 High L/S extraction	EN 12457-3 Compliance test for leaching of granular waste materials	EN 12457-2 Compliance test for leaching of granular waste materials and sludge
Type of test:	Batch tests at specified conditions	Column leaching test	Batch leaching test	Column leaching test	Batch leaching test	Batch leaching test		
Country	CEN TC 292 WG6	CEN TC 292 WG6	ISO TC 190	ISO TC 190/SC7/WG6	ISO TC 190/SC7/WG6	ISO TC 190/SC7/WG6	EU CEN TC292	EU CEN TC292/ CEN TC 308
Particle size:	< 2 mm	< 4 mm	Not specified	< 4 mm	< 4 mm (95%)	< 4 mm (95%)	< 4 mm (95%)	< 10 mm (95%)
Leachant:	DMW with pH control using HNO ₃ or NaOH (pH 3-12)	DMW	0.005 M DTPA 0.01 M CaCl ₂ 0.1 M Triethanolamine	DMW	DMW 0.001 M CaCl ₂	DMW 0.001 M CaCl ₂	DMW	DMW
Amount of solid	100 g	> 500 g	15 g air dry sieved soil	> 500 g	100 ± 5 g	100 ± 5 g	100 ± 5 g	100 ± 5 g
L/S (l/kg) per step	10	L/S = 0.1, 0.2, 0.5, 1, 2, 5, 10	2	L/S = 0.1, 0.2, 0.5, 1, 2, 5, 10	10	10	2 in 1 st step 8 in 2 nd step	10
Maximum accumulated	10	L/S=10	Not applicable	L/S=10	10	10	10	10
Number of steps	8	7 fractions collected	1	7 fractions collected	1	1	2	1
Contact time per step	48 hours	Not applicable	2 hours	Not applicable	24 hours	24 hours	6 h for 1 st step and 18 h for 2 nd step	24 hours
Temperature (°C) For serial batch tests: Renewal of leachant or solid	20 ± 5 not applicable	20 ± 5 Continuous new leachant	20 ± 2 not applicable	20 ± 3 Continuous new leachant	20 ± 3 not applicable	20 ± 3 not applicable	20 ± 5 New leachant	20 ± 5 not applicable
Method of agitation:	ANC mode : End ov rotation, 5 - 10 rpm pH stat mode: magnetic stirrer	No agitation	End-over-end tumbler	No agitation	End over end or roller-table rotation (10 rpm)	End over end or roller-table rotation (10 rpm)	End over end or roller-table rotation (10 rpm)	End over end or roller-table rotation (10 rpm)
Filtration/filter size:	0.45 µm	0.45 µm	No 44 filter paper	0.45 µm	0.45 µm	0.45 µm	0.45 µm	0.45 µm
Comments:	WG document		pH buffered at pH=7.3	Also adapted to organic contaminants	Also adapted to organic contaminants	Also adapted to organic contaminants		

Table I . Summary of leaching tests applied to soil, sludge and biowaste and the specified test conditions