

**Method Number: PM 115**

Updated: 21/03/2022

Issue Number: xx



Page 1 of 1

**Method Summary****Leaching Procedure for CEN One Stage Leach Test 2:1 & 10:1 Step****Scope and Range**

This procedure applies to waste that has a particle size below 4mm, with or without size reduction, it follows CEN/TC 292/WG 2N 164-3, PrEN 12457 parts 1 & 2. The procedure describes The preparation of 2:1 and 10:1 one step leachates.

**References**

CEN/TC 292/WG 3 N 164-3, AFNOR-Standardization unit PrEN 12457 parts 1&2 2002

**Principle**

To determine the quantity of water soluble compounds present in the sample, which may leach into the groundwater. A portion of sample is mixed with deionised water in the ratio either 2:1 or 10:1. Any soluble compounds present in the soil leach into the water and the leachate is then sent for analysis.

The sample is used 'wet' / 'as received' soils

The sample should have a grain size of at least 95% less than 4mm. Therefore the sample shall be sieved through a 4mm sieve. If oversized material exceeds 5% then the entire oversized portion should be crushed, using either a hammer or crushing equipment. On no account should the material be finely ground. Before the leachate can be prepared the dry matter content ratio and the moisture content ratio of the sample is determined at 105°C and calculated as stated in the CEN documentation CEN/TC 292/WG 2N 164-3, PrEN 12457-3

**Interferences**

This procedure may not be applicable to materials with water content or such a water affinity that a good mixing of the solid with the predetermined quantity of liquid is not achievable.

This procedure may not be applicable to materials reacting with the leachate, e.g. leading to excessive gas emission, a solidifying effect or excessive heat release. By crushing the material new surfaces are exposed which may lead to a change in leaching properties. This procedure is not suitable for very wet samples, i.e. with moisture by meter greater than 40% for 2:1 and 80% for 10:1