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IRISH STANDARD

I.S. CEN/TR 15310-1:2006

ICS 13.030.10
13.030.20

CHARACTERIZATION OF WASTE - SAMPLING OF WASTE MATERIALS - PART 1: GUIDANCE ON SELECTION AND APPLICATION OF CRITERIA FOR SAMPLING UNDER VARIOUS CONDITIONS

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TECHNICAL REPORT

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English Version

Characterization of waste - Sampling of waste materials - Part 1: Guidance on selection and application of criteria for sampling under various conditions

Caractérisation des déchets - Prélèvement des déchets - Partie 1 : Guide relatif au choix et à l'application des critères d'échantillonnage dans diverses conditions

Charakterisierung von Abfall - Probenahme - Teil 1: Richtlinien zur Auswahl und Anwendung von Kriterien für die Probenahme unter verschiedenen Bedingungen

This Technical Report was approved by CEN on 21 February 2006. It has been drawn up by the Technical Committee CEN/TC 292.

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Foreword

This Technical Report (CEN/TR 15310-1:2006) has been prepared by Technical Committee CEN/TC 292 “Characterization of waste”, the secretariat of which is held by NEN.

This Technical Report has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This Technical Report is one of a series of five Technical Reports dealing with sampling techniques and procedures, and provides essential information and instructions for the application of the EN-standard:

EN 14899 Characterisation of Waste - Sampling of waste materials - Framework for the preparation and application of a Sampling Plan

The principal component of the EN Standard is the mandatory requirement to prepare a Sampling Plan. This EN 14899 standard can be used to:

- produce standardised sampling plans for use in regular or routine circumstances (i.e. the elaboration of daughter/derived standards dedicated to well defined sampling scenarios);
- incorporate specific sampling requirements into national legislation;
- design and develop a Sampling Plan on a case by case basis.

The Technical Reports display a range of potential approaches and tools to enable the project manager to tailor his sampling plan to a specific testing scenario (i.e. a ‘shop shelf’ approach to sampling plan development for waste testing). This approach allows flexibility in the selection of the sampling approach, sampling point, method of sampling and equipment used.

This Technical Report describes the statistical principles related to sampling, and provides methods based on these principles enabling a testing programme to be defined that will produce results sufficiently reliable for the decision-making process for which they are required.

Wastes arise in a wide variety of types (e.g. pastes, liquids, granular materials, mixes of different materials) and sampling situations (e.g. during a waste production process, stockpiles, tanks, drums). There can also be a variety of sampling objectives within each of the three broad categories (basic characterisation, compliance testing and on-site verification). Consequently the Report cannot provide definitive instructions for each and every case on the practical details of the testing programme, such as the required number of samples, the size of these samples, and whether they should be spot or composite samples. Instead, its aim is to expose the factors that influence the choice of these detailed components of the sampling exercise, and to provide statistical tools that can then be applied to determine the most appropriate testing programme for any given sampling scenario.

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