

DS3077 – Revised 3rd ed. Launched October 2024

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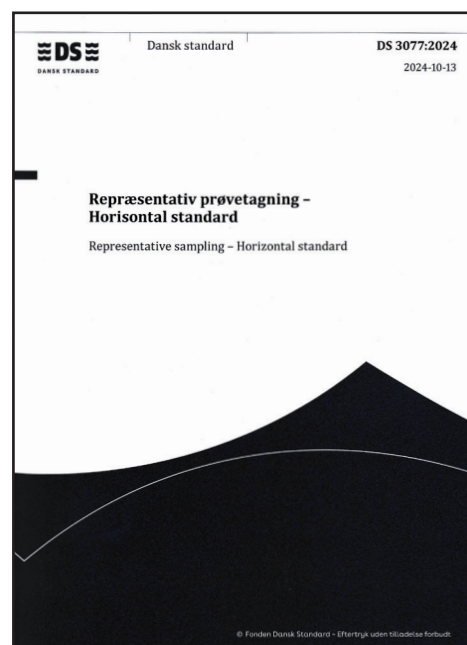
Danish Standard Foundation (DS) announces publication of the generic sampling standard DS 3077:2024, released in its 3rd revision October 2024. This represents the culmination of a 15+ year project, initiated in 2008. The 3rd edition supersedes the second edition, which have been available since 2013.

DS 3077:2024 “Representative sampling – Horizontal standard” has the ambition to be the de facto universal standard for sampling of all particulate, aggregate and mixture materials (including slurries):

SCOPE:

“The Theory of Sampling (TOS) is a generic, matrix-independent framework for representative sampling of all types of aggregate and mixture materials (solid, slurries) in all grain-size brackets (from broken ores to powders). TOS’ universal sampling principles can be applied uniformly to all types of materials, and lots composed by aggregate particular matter and slurries. This document describes a generic sampling process in sufficient detail and covers all elements necessary for the stated objective, enabling documentation of sampling representativity under the specified conditions for the sampling process employed. DS 3077 constitutes a complete competence basis for representative sampling, ensuring appropriate levels of accuracy and precision for both primary sampling as well as for all sub-sampling procedures and mass-reduction operations subsequent stages before delivering a guaranteed representative aliquot for analysis. This document outlines a systematic scientific basis for designing new and assessing, and if necessary improving, the performance of existing sampling procedures. The approach described in this document will contribute toward increased reliability in decision-making based on analytical measurement results. This document establishes a basis enabling professional sampling quality control (QC) by mandating disclosure of results from relevant sampling quality objectives (QO): For sampling of stationary lots: Replication Experiment (RE); for sampling of dynamic lots: Variographic Analysis (VA). This document contains an independent macro with variographic software (freeware) making variographic characterisation available for a set of samples restricted to 100 (Annex C).”

DS 3077:2024 presents the authoritative foundation for all practical sampling activities ‘from-lot-to-aliquot’, including sampling in the laboratory, covering the gamut of science, technology, industry, commerce, trading and society (e.g. for supervisory and regulative authorities) a.o.



DS 3077:2024 can be downloaded from DS webpage:

<https://webshop.ds.dk/en/standard/M374267/ds-3077-2024>

DS has offered to project manage a process with the aim of proposing DS 3077:2024 (3rd ed.) to become an ISO standard. The International Pierre Gy Sampling Association (IPGSA) wishes actively to support this project with expertise and competent personal resources.

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