BS ISO 11271:2022

BSI Standards Publication

Soil quality — Determination of redox potential — Field method

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National foreword

This British Standard is the UK implementation of ISO 11271:2022. It supersedes BS ISO 11271:2002, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EH/4, Soil quality.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Foreword

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This document was prepared by Technical Committee ISO/TC 190, *Soil quality*, Subcommittee SC 3, *Chemical and physical characterization*.

This second edition cancels and replaces the first edition (ISO 11271:2002), of which it constitutes a minor revision. The changes are as follows:

— update of normative references;

— update of bibliography;

— editorially revised.

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Introduction

The redox potential is a physico-chemical parameter used to characterize soil aeration status in a global way. Under field conditions, it gives information on the condition of oxidation or reduction of those compounds which, according to cases, play an important part in plant nutrition, can induce toxicity phenomena or intervene in gas transfers to the atmosphere (greenhouse effect). It can also be used to a certain extent to follow soil performances in case of sludge disposal or composting, and to adjust applications accordingly. Under laboratory conditions it can be used in order to study oxygen diffusion phenomena to aggregate level.

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