



SLOVENSKI STANDARD
SIST EN ISO 4349:2024

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Trdna alternativna goriva - Določitev indeksa recikliranja za soprocesiranje (ISO 4349:2024)

Solid recovered fuels - Determination of the Recycling Index for co-processing (ISO 4349:2024)

Feste Sekundärbrennstoffe - Verfahren zur Bestimmung des Recycling-Index für Co-Processing (ISO 4349:2024)

Combustibles solides de récupération - Détermination de l'indice de recyclage pour le cotraitement (ISO 4349:2024)

Ta slovenski standard je istoveten z: EN ISO 4349:2024

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75.160.10 Trda goriva

Solid fuels

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Solid recovered fuels - Determination of the Recycling Index for co-processing (ISO 4349:2024)

Combustibles solides de récupération - Détermination de l'indice de recyclage pour le cotraitement (ISO 4349:2024)

Feste Sekundärbrennstoffe - Verfahren zur Bestimmung des Recycling-Index für Co-Processing (ISO 4349:2024)

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Contents	Page
European foreword.....	3

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European foreword

This document (EN ISO 4349:2024) has been prepared by Technical Committee ISO/TC 300 "Solid recovered materials, including solid recovered fuels" in collaboration with Technical Committee CEN/TC 343 "Solid recovered materials, including solid recovered fuels" the secretariat of which is held by SFS.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by November 2024, and conflicting national standards shall be withdrawn at the latest by November 2024.

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International Standard

ISO 4349

Solid recovered fuels — Determination of the recycling index for co-processing

*Combustibles solides de récupération — Détermination de
l'indice de recyclage pour le cotraitement*

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ISO 4349:2024(en)

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ISO 4349:2024(en)

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Symbols and abbreviated terms	2
5 Reagents	2
6 Apparatus	2
7 Procedure	3
7.1 Preparation of the test sample.....	3
7.2 Determination of the ash content and preparation of ash sample.....	3
7.3 Determination of the elemental content.....	3
7.4 Methods.....	3
7.4.1 Method A – wet digestion followed by ICP-MS or ICP-OES analysis.....	3
7.4.2 Method B – preparation of fused beads followed by ICP-OES analysis.....	4
7.4.3 Method C – preparation of pellets followed by XRF analysis.....	4
7.4.4 Alternative procedures.....	4
7.5 Calculation.....	4
7.5.1 Calculation of element oxides.....	4
7.5.2 Calculation of R-index for co-processing.....	5
8 Performance characteristics	5
9 Test report	5
Annex A (informative) SRF ash composition from mixed municipal and commercial waste	6
Annex B (informative) Validation	15
Bibliography	23

<https://standards.iteh.ai/catalog/standards/sist/9cd0d463-65e3-46a4-aa30-78a0896b720b/sist-en-iso-4349-2024>

ISO 4349:2024(en)

Foreword

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This document was prepared by Technical Committee ISO/TC 300, *Solid recovered materials, including solid recovered fuels*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 343, *Solid recovered materials, including solid recovered fuels*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

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ISO 4349:2024(en)**Introduction**

When solid recovered fuels (SRFs) are co-processed mainly in the cement industry, simultaneous energy recovery and recycling of mineral components of waste material takes place because the ash is directly incorporated into the clinker. SRF co-processing therefore allows for the replacement of both mineral resources and fossil fuels.

SRF ashes contain various chemical components that are crucial raw materials for cement manufacturers, fulfil specific tasks in cement clinker production or represent clinker phases giving the clinker its specific properties. For example, a major part of SRF ashes from mixed municipal and commercial waste consists of the four main chemical components that are required for cement clinker production: Al_2O_3 , CaO , Fe_2O_3 and SiO_2 (see [Annex A](#)). Additionally, minor ash constituents include MgO and TiO_2 , both of which are present in or as clinker phases. K_2O and Na_2O are typical constituents of feldspars that are present in the clay used as a raw material for the process. SO_3 , which is also present in SRF ash, or another sulfate carrier is needed in order to convert these alkali oxides into alkali sulfates, a clinker phase that alters the clinker's chemical reactivity with water.

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