



International  
Standard

**ISO 14427**

**Carbonaceous materials used in  
the production of aluminium —  
Cold and tepid ramming pastes  
— Preparation of unbaked test  
specimens and determination of  
apparent density after compaction**

**Second edition  
2024-08**

*Produits carbonés utilisés pour la production de l'aluminium —  
Pâtes de brasquage froides et tièdes — Préparation d'éprouvettes  
non cuites et détermination de la densité apparente après  
compactage*

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CP 401 • Ch. de Blandonnet 8  
CH-1214 Vernier, Geneva  
Phone: +41 22 749 01 11  
Email: [copyright@iso.org](mailto:copyright@iso.org)  
Website: [www.iso.org](http://www.iso.org)

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# Contents

Page

<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>1</b>
<b>5 Apparatus and materials</b> .....	<b>1</b>
<b>6 Sampling</b> .....	<b>2</b>
<b>7 Procedure</b> .....	<b>2</b>
<b>8 Expression of results</b> .....	<b>2</b>
8.1 Apparent density of unbaked paste.....	2
8.2 Precision.....	3
<b>9 Test report</b> .....	<b>3</b>

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## Foreword

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This document was prepared by Technical Committee ISO/TC 226, *Materials for the production of primary aluminium*.

This second edition cancels and replaces the first edition (ISO 14427:2004), which has been technically revised.

The main changes are as follows:

- the mass of the falling weight and the ramming rate have been corrected.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at [www.iso.org/members.html](http://www.iso.org/members.html).

## Introduction

The bottom of aluminium electrolysis cells is lined with cathode blocks that are sealed with a ramming paste to avoid any leakage. When lining a cell, the green paste is directly rammed between the cathode blocks and baked in situ during the start-up of the pot by the process heat. The quality of the paste is of primary importance as to ensure long operation without disturbance.

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