STN

Kovové prášky Stanovenie času výtoku kalibrovaným lievikom (Hallov prietokomer) (ISO 4490: 2018)

STN EN ISO 4490

42 0897

Metallic powders - Determination of flow rate by means of a calibrated funnel (Hall flowmeter) (ISO 4490:2018)

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 10/18

Obsahuje: EN ISO 4490:2018, ISO 4490:2018

Oznámením tejto normy sa ruší STN EN ISO 4490 (42 0897) z februára 2015

EUROPEAN STANDARD

EN ISO 4490

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2018

ICS 77.160

Supersedes EN ISO 4490:2014

English Version

Metallic powders - Determination of flow rate by means of a calibrated funnel (Hall flowmeter) (ISO 4490:2018)

Poudres métalliques - Détermination du temps d'écoulement au moyen d'un entonnoir calibré (appareil de Hall) (ISO 4490:2018) Metallpulver - Bestimmung der Durchflussrate mit Hilfe eines kalibrierten Trichters (Hall flowmeter) (ISO 4490:2018)

This European Standard was approved by CEN on 23 March 2018.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN ISO 4490:2018 (E)

	Contents		Page
European foreword	Furancan foroword		2

EN ISO 4490:2018 (E)

European foreword

This document (EN ISO 4490:2018) has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy".

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 2018, and conflicting national standards shall be withdrawn at the latest by November 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN ISO 4490:2014.

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 4490:2018 has been approved by CEN as EN ISO 4490:2018 without any modification.

INTERNATIONAL STANDARD

ISO 4490

Fifth edition 2018-04

Metallic powders — Determination of flow rate by means of a calibrated funnel (Hall flowmeter)

Poudres métalliques — Détermination du temps d'écoulement au moyen d'un entonnoir calibré (appareil de Hall)



ISO 4490:2018(E)



COPYRIGHT PROTECTED DOCUMENT

© ISO 2018

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office CP 401 • Ch. de Blandonnet 8 CH-1214 Vernier, Geneva Phone: +41 22 749 01 11 Fax: +41 22 749 09 47 Email: copyright@iso.org Website: www.iso.org

Published in Switzerland

ISO 4490:2018(E)

Coı	ntents	Page
Fore	eword	
1	Scope	1
2	Normative references	
3	Terms and definitions	
4	Principle	1
5	Apparatus	1
6	Calibration of the funnel 6.1 Calibration by the manufacturer of the funnel 6.2 Calibration by the user of the funnel	3
7	Sampling	
8	Procedure	4
9	Expression of results	4
10	Precision	5
11	Test report	5
Bibli	liography	7

ISO 4490:2018(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 119, *Powder metallurgy*, Subcommittee SC 2, *Sampling and testing methods for powders (including powders for hardmetals*).

This fifth edition, which cancels and replaces the fourth edition (ISO 4490:2014), has been revised to include a precision statement together with some other minor clarifications.

Metallic powders — Determination of flow rate by means of a calibrated funnel (Hall flowmeter)

1 Scope

This document specifies a method for determining the flow rate of metallic powders, including powders for hard metals, by means of a calibrated funnel (Hall flowmeter).

The method is applicable only to powders which flow freely through the specified test orifice.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN