

BS EN ISO 22068:2014



BSI Standards Publication

Sintered-metal injection-moulded materials — Specifications

bsi.

...making excellence a habit.
AVA Documents™
Document Sharing Hub

National foreword

This British Standard is the UK implementation of EN ISO 22068:2014. It is identical to ISO 22068:2012. It supersedes BS ISO 22068:2012 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee ISE/65, Sintered metal components.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

© The British Standards Institution 2014.
Published by BSI Standards Limited 2014

ISBN 978 0 580 83541 4

ICS 77.160

Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 30 June 2012.

Amendments/corrigenda issued since publication

Date	Text affected
31 May 2014	This corrigendum renumbers BS ISO 22068:2012 as BS EN ISO 22068:2014

English Version

Sintered-metal injection-moulded materials - Specifications (ISO
22068:2012)

Matériaux métalliques frittés pour moulage par injection -
Spécifications (ISO 22068:2012)

Sintermetallpulverspritzguss - Anforderungen (ISO
22068:2012)

This European Standard was approved by CEN on 2 March 2014.

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, 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: Avenue Marnix 17, B-1000 Brussels

Foreword

The text of ISO 22068:2012 has been prepared by Technical Committee ISO/TC 119 "Powder metallurgy" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 22068:2014.

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 September 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

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

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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Endorsement notice

The text of ISO 22068:2012 has been approved by CEN as EN ISO 22068:2014 without any modification.

Contents

Page

1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Test methods for normative properties	2
4.1	General	2
4.2	Chemical composition	2
4.3	Density	2
4.4	Tensile strength	2
4.5	Tensile yield strength	3
4.6	Elongation	3
4.7	Magnetic properties	3
5	Other test methods	3
5.1	Hardness	3
5.2	Corrosion resistance	3
5.2.1	Sulfuric acid test	3
5.2.2	Copper sulfate test	3
5.2.3	Boiling water test	3
5.2.4	Salt spray test	3
6	Information and explanatory notes	4
6.1	Minimum value concept	4
6.2	Minimum mechanical property values	4
6.3	Proof testing	4
6.4	Chemical composition	4
6.5	Density and residual porosity	4
6.6	Heat treatment	4
7	Designation of materials	5
7.1	Designation system	5
7.2	Description block	5
7.3	Identity block	5
7.4	Individual item block	5
8	Material specifications	6
	Bibliography	11

This page deliberately left blank