

**Metallkeraamilised puksid. Radiaalse purustustugevuse määramine (ISO 2739:2012)**

**Sintered metal bushings - Determination of radial crushing strength (ISO 2739:2012)**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN ISO 2739:2012 sisaldab Euroopa standardi EN ISO 2739:2012 ingliskeelset teksti.	This Estonian standard EVS-EN ISO 2739:2012 consists of the English text of the European standard EN ISO 2739:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 08.07.2012.	Date of Availability of the European standard is 08.07.2012.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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English Version

Sintered metal bushings - Determination of radial crushing  
strength (ISO 2739:2012)

Bagues en métal fritté - Détermination de la résistance à  
l'écrasement radial (ISO 2739:2012)

Buchsen aus Sintermetall - Bestimmung der radialen  
Bruchfestigkeit (ISO 2739:2012)

This European Standard was approved by CEN on 16 June 2012.

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## Foreword

This document (EN ISO 2739:2012) 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of an identical text or by endorsement, at the latest by January 2013, and conflicting national standards shall be withdrawn at the latest by January 2013.

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### Endorsement notice

The text of ISO 2739:2012 has been approved by CEN as a EN ISO 2739:2012 without any modification.

# Sintered metal bushings — Determination of radial crushing strength

## 1 Scope

This International Standard specifies a method of measuring the radial crushing strength of sintered metal parts in the form of hollow cylinders, commonly known as bushings.

This method is applicable to sintered bushings composed of pure or alloyed metal powders.

## 2 Principle

A hollow cylinder is submitted to a continuously increasing radial load until breakage occurs, provided that the deformation does not exceed 10 % of the diameter. The maximum load observed is used to calculate a value in relation to the dimensions of the hollow cylinder known as “radial crushing strength”.

## 3 Apparatus

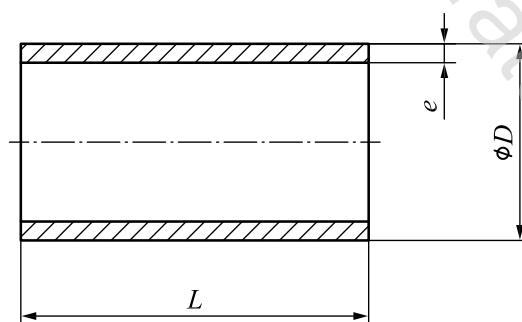
**3.1 Pressing apparatus**, that enables a radial load to be applied to a hollow cylinder.

**3.2 Load-measuring device**, accurate and readable to 0,1 % of the full scale. The lowest testing range that can provide a measureable result should be used.

**3.3 Loading plates**, two flat, ground, hardened steel plates of sufficient size to encompass the test specimen that can be fastened to the press platens and that will remain parallel.

## 4 Test piece

The test piece (see Figure 1) shall be in the form of a sintered hollow cylinder (which may or may not be oil-impregnated), without flanges, notches, grooves, pronounced chamfers, drilled holes, oilways or keyways. If necessary, the cylinder may be machined but, in this case, the results obtained may differ from those obtained with a cylinder that has not been machined.



### Key

- $L$  length of the hollow cylinder
- $D$  external diameter of the hollow cylinder
- $e$  thickness of the cylinder wall

Figure 1 — Test piece