

TC119

International Standard



5755/1

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Sintered metal materials — Specifications — Part 1 : Materials, for bearings, impregnated with liquid lubricant

Matériaux métalliques frittés — Spécifications — Partie 1 : Matériaux, pour coussinets, imprégnés de lubrifiant liquide

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5755/1 was developed by Technical Committee ISO/TC 119, *Powder metallurgy*, and was circulated to the member bodies in June 1979.

It has been approved by the member bodies of the following countries :

Australia	France	Spain
Austria	Germany, F. R.	Sweden
Bulgaria	Japan	United Kingdom
Canada	Libyan Arab Jamahiriya	USA
Czechoslovakia	Poland	USSR
Egypt, Arab Rep. of	Romania	

The member body of the following country expressed disapproval of the document on technical grounds :

Italy

Sintered metal materials — Specifications —

Part 1 : Materials, for bearings, impregnated with liquid lubricant

1 Scope and field of application

part of ISO 5755
This International Standard specifies the requirements for the chemical composition and the mechanical and physical properties of sintered metal materials, impregnated with liquid lubricant, mainly used for bearings.

2 References

ISO 2737, *Permeable sintered metal materials — Determination of oil content.*

ISO 2738, *Permeable sintered metal materials — Determination of density and open porosity.*

ISO 2739, *Sintered metal bushes — Determination of radial crushing strength.*

ISO 2795, *Plain bearings made from sintered materials — Dimensions and tolerances.*

ISO 3955, *Sintered metal materials, excluding hardmetals — Sampling.*

3 Sampling

Sampling shall be carried out in accordance with ISO 3955.

4 Test methods

4.1 Chemical analysis

In cases of dispute, the method of chemical analysis shall be that specified in the relevant International Standard. If no International Standard is available, the method may be agreed upon and specified at the time of enquiry and order.

4.2 Open porosity

The open porosity shall be determined in accordance with ISO 2738.

4.3 Liquid lubricant content

The liquid lubricant content shall be determined in accordance with ISO 2737.

4.4 Radial crushing strength

The radial crushing strength shall be determined in accordance with ISO 2739. The wall thicknesses of test pieces to be used shall be in the range covered by ISO 2795. For test pieces with wall thicknesses outside this range, the specified radial crushing strength values are different and shall be agreed between supplier and purchaser.