BS ISO 19259:2015

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Plain bearings — Bearings with embedded solid lubricants

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee MCE/12, Plain bearings.

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

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INTERNATIONAL STANDARD

ISO 19259

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Plain bearings — Bearings with embedded solid lubricants

Paliers lisses — Paliers avec lubrifiants solide incorporé

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information.

The committee responsible for this document is ISO/TC 123, *Plain bearings*, Subcommittee SC 7, *Special types of plain bearings*.

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INTERNATIONAL STANDARD ISO 19259:2015(E)

Plain bearings — Bearings with embedded solid lubricants

1 Scope

This International Standard specifies a bearing with embedded solid lubricants which has been widely used as a solid lubricant bearing.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 185, *Grey cast irons — Classification*

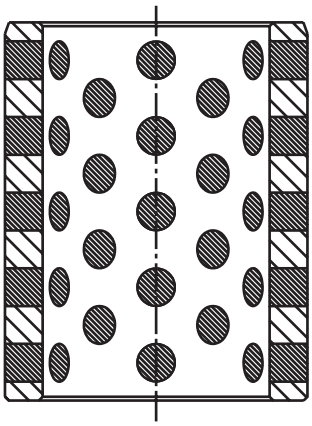
3 Characteristics

3.1 Structure

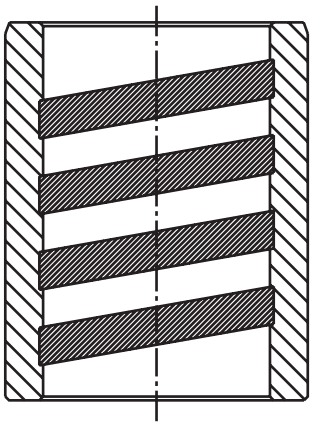
A bearing with embedded solid lubricants is composed of a metallic base body supporting a load and a solid lubricant embedded in holes or hollows formed on the surface of the metallic base body giving lubricity. As to the embedded state of a solid lubricant, there is a plug type and a spiral type (refer to Figure 1).

As for hole type, there are “through” or perforated ones and “bottomed” ones (refer to Figure 2).

This International Standard specifies a type which is most common and has been widely used where a solid lubricant of a plug type is embedded in through holes. The International Standard also specifies a cylindrical bush and a flanged bush (refer to Figure 3).



a) Plug type



b) Spiral type

Figure 1 — Embedded state of solid lubricants on cylindrical bush

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