
International Standard



244

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

Aircraft — Sealing wire

Aéronefs — Fil à plomber

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ISO 244:1979

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Descriptors : aircraft industry, aircraft equipment, wire, sealing wire, dimensions, mechanical properties.

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 244 was developed by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, and was circulated to the member bodies in November 1977.

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

| | | |
|----------------|-------------|-----------------------|
| Australia | Italy | South Africa, Rep. of |
| Austria | Japan | Spain |
| Belgium | Mexico | Turkey |
| Canada | Netherlands | United Kingdom |
| Czechoslovakia | Philippines | USA |
| Germany, F.R. | Poland | Yugoslavia |
| India | Romania | |

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Brazil
France
USSR

This International Standard cancels and replaces ISO Recommendation R 244-1962, of which it constitutes a technical revision.

Aircraft — Sealing wire

1 SCOPE

This International Standard specifies the requirements of steel sealing wire.

2 FIELD OF APPLICATION

This sealing wire is for use in aerospace assemblies and has the following purposes :

- to enable a check to be made as to whether equipment has been used;
- to prevent inadvertent use of equipment.

NOTE — Sealing wire can also be used to ensure the non-disturbance of adjustment.

3.2 Material

Steel with a tensile strength between 230 and 300 MPa shall be used.

3.3 Surface treatment

Core wire and layer wire shall be zinc coated before wrapping.

3.4 Breaking strength

The sealing wire shall not have a breaking strength over 36 N.

3.5 Linear density

The sealing wire shall have a linear density of approximately $1,3 \times 10^{-3}$ kg/m.

3.6 Procurement

At room temperature, the sealing wire shall withstand, without breaking or cracking, bending through 180° over a mandrel of the same diameter as the nominal wire diameter.

3 REQUIRED CHARACTERISTICS

3.1 Dimensions

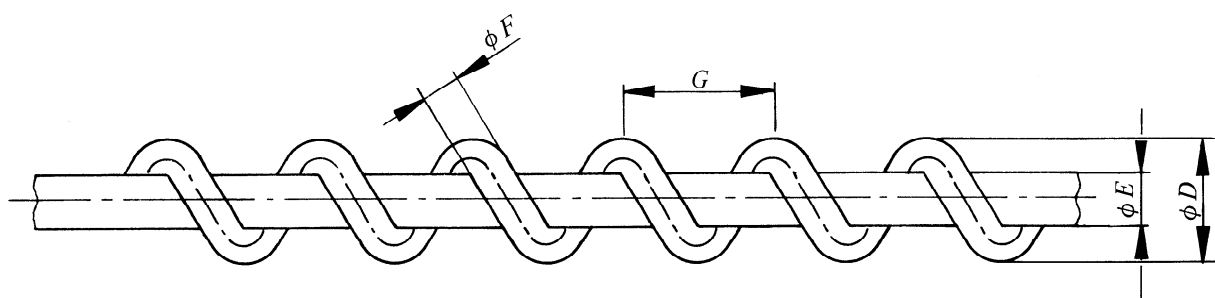


TABLE — Dimensions

| D nom. | E | | F | | G ref. | Sectional area | Hole diameter min. |
|-------------|------|------|------|------|-------------|-------------------|--------------------------|
| | max. | min. | max. | min. | | | |
| mm | mm | mm | mm | mm | mm | mm ² | mm |
| 0,8 | 0,35 | 0,30 | 0,25 | 0,22 | 1 | 0,12 | 0,9 |

NOTE — The layer wire may be laid over the core wire in either a left hand or right hand direction.

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