## INTERNATIONAL STANDARD



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## Plain washers for screw and washer assemblies — Small, normal and large series — Product grade A

Rondelles plates pour vis à rondelle plate incorporée — Séries étroite, normale et large — Grade A



Reference number ISO 10673:2009(E)

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#### Foreword

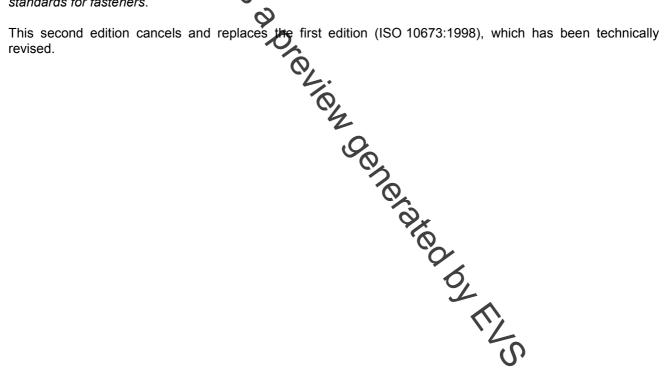
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# Plain washers for screw and washer assemblies — Small, normal and large series — Product grade A

### 1 Scope

The International Standard specifies the characteristics of plain steel washers, small, normal and large series, of product grade A for metric screw and washer assemblies in accordance with ISO 10644.

NOTE 1 The product can be panufactured under the conditions defined in Clause 5.

NOTE 2 The manufacturing of screw and washer assemblies takes into consideration material and production procedure of screw and plain washer as well as the assembly process of components, in order to meet specification requirements.

#### 2 Normative references

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

ISO 3269, Fasteners — Acceptance inspection

ISO 4759-3, Tolerances for fasteners — Part 3: Plain washers for bolts, screws and nuts — Product grades A and C

ISO 6507-1, Metallic materials — Vickers hardness test — Party: Test method

ISO 10644:2009, Screw and washer assemblies made of stee with plain washers — Washer hardness classes 200 HV and 300 HV

#### 3 Classification

Washers of product grade A for metric screw and washer assemblies are classified into three types:

- type S: small series, preferably for hexagon socket head cap screws and for one set head screws.
- type N: normal series, preferably for hexagon head screws.
- type L: large series, preferably for hexagon head screws.