
**Plastics — Hardeners and accelerators
for epoxy resins —**

**Part 1:
Designation**

*Plastiques — Durcisseurs et accélérateurs pour résines époxydes —
Partie 1: Désignation*



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4597-1 was prepared by Technical Committee ISO/TC 61, *Plastics*, Subcommittee SC 12, *Thermosetting materials*.

This second edition cancels and replaces the first edition (ISO 4597-1:1983), the table of which has been revised to include two additional classes of chemical compound (classes 40 and 44).

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Plastics — Hardeners and accelerators for epoxy resins —

Part 1: Designation

1 Scope

This part of ISO 4597 specifies a method of designation for epoxy resin hardeners and accelerators.

The object of this designation method is to allocate to each commercial product a group of digits, called the “designation”, giving in a coded form certain information on the product: chemical base, modifiers and solvents, viscosity and additives.

Thus all products having similar properties and therefore likely to have the same uses will have the same designation, so aiding users in their choice if producers list the designation in their data sheets.

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 3219, *Plastics — Polymers/resins in the liquid state or as emulsions or dispersions — Determination of viscosity using a rotational viscometer with defined shear rate*

3 Designation system

The hardeners and accelerators are designated by four groups of two digits, separated by intervals. The first three groups refer to principal properties and the final group refers to a secondary property.

- Each successive group of two digits corresponds to a different property in the list given in Table 1.
- The position (or rank I and II, III and IV, etc.) of each successive group of two digits in the group indicates the property to which it refers.
- The numerical value of each successive group of two digits in the designation indicates the class (01, 02, 03, etc.) which corresponds to a certain composition or to a certain range of values of the property, as given in Table 1.

NOTE 1 Not every combination of property classifications will be achievable in practice. Note that the designation of a material will not correspond, except by chance, with a horizontal row in Table 1.