



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 5185-2005

**Welding and allied processes -- Nomenclature of processes and
reference numbers
(English Translation)**

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Foreword

This Standard is identical to ISO 4063:1998 "Welding and allied processes Nomenclature of processes and reference numbers" (English version).

To ensure the coordination and operability of the standard, this Standard, in the equivalent conversion of the international standard, has made necessary editorial changes.

Compared with ISO 4063, this Standard mainly has the following changes in content.

- Directly ADOPT the definition of GB/T 3375 "Welding terminology";
- On the basis of normal designation, ADD a simplified designation for reference numbers and an example.

This Standard is a revision of GB/T 5185-1985 "Welding, brazing, braze welding and soldering of metals -List of processes for symbolic representation on drawings". Compared with GB/T 5185-1985, there are two main changes.

- ADD new welding processes;
- DELETE some old and backward welding process reference numbers. This Standard, as of the date of implementation, replaces GB/T 5185-1985. Annex A of this Standard is an informative annex. This Standard was proposed by China Machinery Industry Federation. This Standard shall be under the jurisdiction of National Technical Committee

55 on Welding of Standardization Administration of China.

Responsible drafting organization of this Standard. Harbin Welding Institute.

Main drafter of this Standard. Piao Dongguang.

This Standard was first formulated in 1985; and this is the first revision.

Welding and allied processes -

Nomenclature of processes and reference numbers

1 Scope

This Standard specifies the reference numbers for welding and allied processes.

This reference number system specified by this Standard can be used in computerization, drawings, the drafting of working papers, welding procedure specifications, etc.

2 Normative references

The clauses in the following documents, by reference in this Standard, constitute the clauses of this Standard. For the dated references, the subsequent amendments (not including errata content) or revisions do not apply to this Standard. However, parties which have reached an agreement according to this Standard are encouraged to study whether the latest version of these documents can be used. For the undated references, the latest version is applicable to this Standard.

GB/T 3375 Welding terminology

3 Designation

Welding and allied processes involved in this Standard are defined in accordance with the provisions of GB/T 3375.

When a full designation of a process is required, a full designation shall be used, that is, "process + standard number + process reference number". For example, "friction welding" can be designated as.

Process GB/T 5185-42

In the case of no misunderstanding, a simplified designation can be used, that is, only the reference number is marked. For example, "friction welding" can be expressed by "42".

83 Plasma arc cutting 84 Laser beam cutting 94 Soldering 86 Thermal gouging

941 Infrared soldering 87 Arc gouging 942 Torch soldering 871 Air carbon arc cutting 943 Furnace soldering 872 Oxygen gouging 944 Dip soldering

945 Salt-bath soldering 88 Plasma gouging 946 Induction soldering 947 Ultrasonic soldering 9 Brazing, soldering and braze 948 Resistance soldering welding

949 Diffusion soldering 91 Brazing 911 Infrared brazing 951 Wave soldering 912 Torch brazing 952 Iron soldering 913 Furnace brazing 954 Vacuum soldering 914 Dip brazing 956 Drag Soldering 915 Salt-bath brazing 916 Induction brazing 96 Other soldering processes

918 Resistance brazing 919 Diffusion brazing 97 Braze welding 924 Vacuum brazing 971
Gas braze welding

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