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

GA/T 1577-2019

**Forensic sciences - Specifications for identification of
categories of standard cartridges**

法庭科学 制式枪弹种类识别规范

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed and managed by the National Criminal Technology Standardization Technical Committee Trace Inspection Sub-Technical Committee (SAC/TC179/SC9).

This standard was drafted. Material Evidence Identification Center of the Ministry of Public Security.

1 Scope

This standard specifies the inspection contents and requirements, inspection methods, inspection opinions, etc. for the identification of standard bullets in the scientific field of the court.

This standard applies to the type inspection and identification of standard warheads, shells and bullets in the forensic sciences.

2.1 Warhead identification

2.1.1

Check the shape of the warhead.

2.1.2

Measure the length and diameter of the warhead, in millimeters (mm), with two digits after the decimal point.

2.1.3

Measure the mass of the warhead, in grams (g), with one digit after the decimal point.

2.1.4

Inspect the warhead for color markings.

2.2 Identification of cartridge cases

2.2.1

Check the shape and bottom edge of the cartridge case.

2.2.2

Measure the length of the shell, the inner diameter of the shell mouth, the diameter of the shell, and the diameter of the bottom edge, in millimeters (mm), with two decimal places retained.

2.2.3

Check the bottom mark of the cartridge case.

2.3 Identification of bullets

2.3.1

Check the shape of the bullet, that is, the shape of the warhead head, the shape of the shell, and the form of the bottom edge.

2.3.2

Measure the length of the bullet, the diameter of the warhead, the diameter of the shell of the shell and the diameter of the bottom edge, in millimeters (mm), with decimals retained Two digits after the point.

2.3.3

Measure the mass of the bullet, in grams (g), with one digit after the decimal point.

2.3.4

Check whether there is a color mark on the head of the warhead.

2.3.5

Check the bottom mark of the cartridge case.

2.3.6

When the above inspection is still not enough to determine the type of the ammunition to be sent for inspection, other items such as decomposition inspection and composition inspection may be performed.

3.1 Physical comparison test

Compare the test material with the corresponding physical sample to check whether the characteristics of the bombs, such as structure, shape and size, are the same.

3.2 Data comparison test

Compare the inspection materials with graphic materials such as official publications, domestic and foreign authoritative departments and organizations' research and development data databases, and check the two.

Whether the characteristics of bombs such as shape and size are the same.

4.1 Inspection opinion of warhead identification

4.1.1

When the bullet characteristics of the bullet for a certain kind of bullet are the same as those of a certain type of bullet, the inspection opinion for the bullet for a certain kind of bullet is issued.

4.1.2

The characteristics of the projectile reflected by the warhead submitted for inspection are insufficient to determine the specific type of the warhead, or the relevant sample or information is lacking.

Determine the inspection opinion of the type of warhead to be inspected.

4.2 Inspection opinion of cartridge case identification

4.2.1

When the bullet type of the bullet case to be inspected is the same as that of a certain type of bullet case, an inspection opinion shall be issued where the bullet case to be inspected is a certain type of bullet case.

4.2.2

In the absence of relevant samples and information, an inspection opinion is issued that cannot determine the type of cartridge case to be inspected.

4.3 Inspection opinions for bullet identification

4.3.1

When the characteristics of the ammunition to be inspected are the same as those of a certain kind of ammunition, an inspection opinion shall be issued for the ammunition to be inspected.

4.3.2

In the absence of samples and information about the relevant ammunition, an inspection opinion will be issued that cannot determine the type of ammunition to be sent for inspection.

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references

[1] GB/T 29347-2012 Forensic Science Firearms Fireball Inspection Marks Specification [2]
GB/T 29348-2012 Forensic Science Firearms Shell Trace Inspection Specification