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Reagents for stability tests of explosives

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry, through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

Consequently **JIS K 4822:2017** is replaced with this Standard.

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Reagents for stability tests of explosives

1 Scope

This Japanese Industrial Standard specifies the requirements for reagents used for stability tests of explosives.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7507 *Vernier, dial and digital callipers*

JIS K 0067 *Test methods for loss and residue of chemical products*

JIS K 0557 *Water used for industrial water and wastewater analysis*

JIS K 0970 *Piston pipettes*

JIS K 4800 *Technical terms for explosives*

JIS K 4810 *Testing methods of explosives*

JIS K 8001 *General rules for test methods of reagents*

JIS K 8295 *Glycerol (Reagent)*

JIS P 3801 *Filter paper (for chemical analysis)*

JIS T 3201 *Glass syringes*

JIS T 3210 *Sterile injection syringes*

3 Terms and definitions

For the purpose of this Standard, the terms and definitions given in **JIS K 4800**, and the following apply.

3.1

potassium iodide-starch paper for comparison test

material used for the sensitivity test of an uninspected potassium iodide-starch paper, which satisfies quality requirements specified in **5.1** and which is stored in an airtight container at a cool dark place

3.2

standard colour paper for comparison test

material used for the standard colour line test of a standard colour paper, which satisfies quality requirements specified in **6.1** and which is stored in an airtight container at a cool dark place

3.3

Abel test time

a period of time from insertion of Abel test tube containing sample in a thermostat to the instant when wet-and-dry boundary of potassium iodide-starch paper changes to the same colour concentration as that on the standard colour paper for comparison test

3.4

original paper of products

an uninspected potassium iodide-starch original paper which is impregnated with potassium iodide and soluble starch, and of which the four sides are cut off by width 30 mm to 50 mm after a lapse of at least a month since manufacture

4 Reagent types

Types of reagents used for stability tests of explosives are as follows.

- a) **Potassium iodide-starch paper**
- b) **Standard colour paper**
- c) **Purified talc powder**
- d) **Blue litmus test paper**

5 Potassium iodide-starch paper

5.1 Quality

When the test is performed according to 5.2, the quality requirements in Table 1 shall be satisfied.

Table 1 Quality of potassium iodide-starch paper

Item	Quality
Appearance	White, no flaw or dirt
Sensitivity	Time T' (s) for Abel test at $65\text{ }^{\circ}\text{C} \pm 0.5\text{ }^{\circ}\text{C}$ shall be within the following range. $T' = T \pm 0.05T$ where, T : time for Abel test of potassium iodide-starch paper for comparison test (s)

5.2 Test methods

5.2.1 Test method with gelatine dynamite

5.2.1.1 Materials

Materials shall be as follows.

- a) **Potassium iodide-starch paper for comparison test**
- b) **Standard colour paper**
- c) **Purified talc powder**