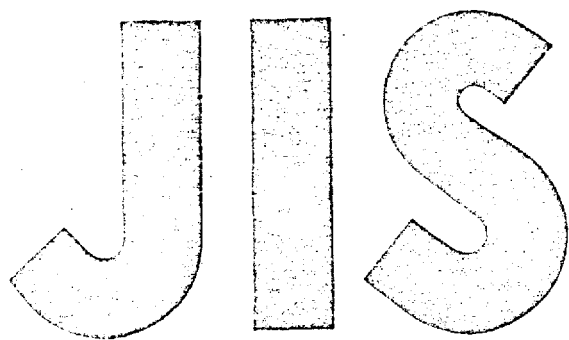




JAPANESE INDUSTRIAL STANDARD

Trinitrotoluene

JIS K 4813-1974

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Translated
by
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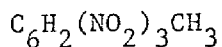
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Trinitrotoluene

K 4813-1974

(Reaffirmed: 1978)

1. Scope

This Japanese Industrial Standard specifies the trinitrotoluene, hereinafter referred to as the "TNT", for use as an explosive.

2. Classification

TNT shall be classified into the following three grades:

Grade 1

Grade 2

Grade 3

3. Quality

The quality of trinitrotoluene shall conform to the following table when tested by the test methods specified in 5.

Table

Item \ Grade	Grade 1	Grade 2	Grade 3
Form	Flaky	Crystalline	Crystalline, granular or powdery
Color	Thin yellow to dull yellow	Thin yellow to dull yellow	Thin yellow to dull yellow
Freezing point (°C)	80.2 or higher	80.2 or higher	76.0 or higher
Water content (%)	0.10 or less	0.10 or less	-
Acidity (as sulfuric acid) (%)	0.01 or less	0.01 or less	0.01 or less
Alkalinity	None	None	None
Benzene-insoluble content (%)	0.05 or less	0.05 or less	0.10 or less

(to be continued)

Applicable Standards: See page 7.

Item \ Grade	Grade 1	Grade 2	Grade 3
Thickness (mm)	Average, 0.64 or smaller Maximum, 1.02		
Particle size, under 1190 μm (%)		95 or more	-

4. Sampling Method

Sampling shall be performed by the following method from a sampling unit consisting of 50 t or its fraction of the product belonging to the same lot.

- (1) For Sampling Unit of 9 Cases or Less A mixture, prepared from 500 g units each scooped out of the respective cases, shall be reduced by increment into two 250 g specimens, and one of them shall be used as the test specimen and the other reserved as a preparatory specimen.
- (2) For Sampling Unit of 10 Cases or More A mixture, prepared from 500 g units each scooped out of the respective 10 cases randomly chosen from all the cases, shall be reduced by increment into two 250 g specimens, and one of them shall be used as the test specimen and the other reserved as a preparatory specimen.

5. Test Methods

5.1 Color The specimen spread on a sheet of white paper or glass plate shall be visually observed.

5.2 Freezing Point

5.2.1 Apparatus and Appliances

- (1) Freezing point testing apparatus An apparatus as shown in the following figure shall be used.
- (2) Correcting thermometer, with 1°C graduations.
- (3) Standard thermometer for measurement, with 0.1°C graduations.