

JIS

JAPANESE INDUSTRIAL STANDARD

**Testing Method for
Biodegradability of
Synthetic Detergent**

JIS K 3363^{—1990}

Translated and Published

by

Japanese Standards Association

In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

1. Scope

This Japanese Industrial Standard specifies the testing method for biodegradability of anionic surface active agent or nonionic surface active agent in synthetic detergent.

Remark: The units and numerical values given in { } in this Standard are based on the traditional units and are currently the criteria in force.

2. Definitions

The terms of surface active agents used in this Standard shall be as follows.

- (1) Anionic Surface Active Agents Anionic surface active agents comprise main components such as straight chain type alkylbenzene-sulphonate (LAS), branched chain type alkylbenzenesulfonate (ABS), alkylsulfate, alkylethoxysulfate, alkylsulfonate (alkanesulfonate, paraffin sulfonate) and alkenyl sulfonate (alpha-olefin sulfonate).
- (2) Nonionic Surface Active Agents Nonionic surface active agents mean polyoxyethylene alkylphenol ether, polyoxyethylene alkyl ether, fatty polyoxyethylene glycol ester, polyoxyethylene sorbitan fatty acid ester, polyoxyethylene glycerin fatty acid ester and alkanol fatty acid amide.

3. Sampling Method

The sampling method shall be as described in 4. Sampling Method of JIS K 3362.

4. General Matters

General matters common to the test shall be in accordance with JIS K 0050.

5. Testing Method for Biodegradability

5.1 Summary This method is the testing method for biodegradability of a sample as follows: Activated sludge naturalized and cultured by synthetic detergent is taken as a decomposer organism source, this activated sludge is cultured by shaking in the sample, and the concentration of anionic surface active agent is obtained by the determination method specified in 6., and otherwise the concentration of nonionic surface active agent is obtained by the determination method specified in 7.