

Guide for

Comparative testing of performance of detergents for domestic machine dishwashing

[ISO title: Surface active agents — Detergents for domestic
machine dishwashing — Guide for comparative testing of
performance]

UDC [661.185.6:648.545]:620.1

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- British Hotels and Restaurants and Caterers Association
- Carpet Cleaners' Association
- Chemical Industries Association
- Consumer Standards Advisory Committee of BSI
- Department of Trade and Industry (Laboratory of the Government Chemist)
- Home Laundering Consultative Council
- International Wool Secretariat
- National Federation Consumer Groups
- Soap and Detergent Industry Association
- Society of Dyers and Colourists
- Textile Institute
- Textile Research Council

This British Standard, having been prepared under the direction of the Chemicals Standards Committee, was published under the authority of the Board of BSI and comes into effect on 28 February 1985

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The following BSI references relate to the work on this standard:
Committee reference CIC/38
Draft for comment 83/51657 DC

ISBN 0 580 14337 6

Amendments issued since publication

Amd. No.	Date of issue	Comments

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National foreword

This British Standard has been prepared under the direction of the Chemicals Standards Committee in order to provide a guide for the evaluation of detergents for domestic machine dishwashing. It is identical with ISO 7535:1984 “*Surface active agents — Detergents for domestic machine dishwashing — Guide for comparative testing of performance*” published by the International Organization for Standardization (ISO).

For some years the United Kingdom has participated in the work of preparing standards applicable to the testing of detergents organized by Technical Committee 91, Surface active agents, of the International Organization for Standardization, and as international agreement is reached on the standards, it is proposed to publish them as British Standards.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

Wherever the words “International Standard” appear, referring to this standard, they should be read as “British Standard”.

Cross-reference

International Standard	Corresponding British Standard
ISO 607:1980	BS 3762 <i>Analysis of formulated detergents</i> Part 1:1983 <i>Methods of sample division</i> (Identical)

There is no British Standard corresponding to ISO 862, a definition from which is included in clause 4. This does not, however, affect the utilization of this standard.

This standard provides a guide for the evaluation of detergents for domestic machine dishwashing and should not be referred to as a specification defining performance requirements. Reference to this standard should indicate that the guidance taken is in accordance with BS 6585.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

0 Introduction

In order to test the comparative performance of detergents and rinse agents used in a number of domestic dishwashing machines, it is necessary to consider several related and several apparently unrelated variables. The particular variables and their importance will vary between regions and countries depending on

- the variety of soil, consequent on varied dietary habits;
- the materials used in making kitchen utensils, tableware and cutlery;
- water quality and limitations in the available choice of dishwashing machines.

Recognizing the importance and value to users of comparative test information derived from similarly based test methods, this International Standard lays down the criteria to be considered in designing tests and assessing results. One of the primary criteria, which affect all consumers, is the effective removal of a wide variety of soils from all kinds of domestic utensils soiled by foods and drinks, with the least possible damage to utensils and to washing equipment. Another important criterion is the appearance of the cleaned utensils, such as, absence of spotting and filming.

Although toxicological and ecological properties are extremely important for products widely used in the home, their assessment is beyond the scope of this International Standard.

This International Standard shows how to devise satisfactory comparative test methods despite the possible choices between the dishwashing machines.

1 Scope

This International Standard establishes guidelines for carrying out comparative tests on machine dishwashing products solid or liquid, in an attempt to reflect realistically the performance of products likely to be used by consumers.

It lists and defines the performance characteristics considered; it gives details of the variables to be taken into account, indicates their significance and provides a basis for designing adequate comparative test methods.

2 Field of application

This International Standard applies both to dishwashing machine detergents and to rinsing agents; the latter are added optionally by the user to the final rinse water to improve draining and so improve appearance, particularly under some conditions, e.g. hard water.

Domestic machine dishwashing is understood to include machine washing of all domestic utensils used for food storage, preparation, cooking, eating and drinking.

It does not apply to industrial dishwashing products.

3 References

ISO 607, *Surface active agents and detergents — Methods of sample division*.

ISO 862, *Surface active agents — Vocabulary*.

4 Definitions

4.1

detergent for domestic machine dishwashing

a detergent¹⁾ in powder, granular or liquid form, manufactured for use in domestic dishwashing machines

4.2

rinsing agent for domestic machine dishwashing

a product which is formulated to improve the drying effect and the appearance of articles cleaned by means of domestic dishwashing machines. It may be in liquid form (to be added to the final rinse) or in solid bar form (to be placed and left in the dishwasher during successive washings)

¹⁾ See the definition in ISO 862.