

Dirt content of milk —

Part 1: Method for the determination of dirt content (reference method)

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- Dairy Trade Federation*
- Department of Health and Social Security
- Department of Industry (Laboratory of the Government Chemist)*
- Institute of Food Science and Technology
- Intervention Board for Agricultural Produce*
- Joint Committee of the Milk Marketing Board and the Dairy Trade Federation*
- Local Authorities Organization
- Milk Marketing Board*
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- Milking Machine Manufacturers' Association
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- Society of Chemical Industry*
- Society of Dairy Technology*
- United Kingdom Dairy Association
- West of Scotland Agricultural College

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- Association of British Manufacturers of Milk Powder
- Association of Condensed Milk Manufacturers
- Association of Public Analysts
- British Food Manufacturing Industries Research Association
- Department of Agriculture (Government of Northern Ireland)
- Hannah Research Institute
- Ice Cream Alliance Limited
- Royal Society of Chemistry
- University of Reading

This British Standard, having been prepared under the direction of the Dairying Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 December 1982

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Foreword

This Part of BS 4938 has been prepared under the direction of the Dairying Standards Committee and together with Part 2 supersedes BS 4938:1973 which is withdrawn.

The 1973 edition of this standard described a rapid routine method for determining sediment in milk by filtration. In reviewing that method it was decided that it should be replaced by a reference method and a rapid method, published separately. Furthermore, it was agreed that what these methods determined would be more appropriately described as “dirt” and “visible dirt”, rather than sediment.

The reference method determines dirt (moist), by centrifuging followed by chemical treatment of the deposit obtained, as microlitres per litre of milk whereas the rapid method determines visible dirt by filtration and the use of photographic standard filter discs, as milligrams per litre of milk. It would be desirable for both methods to measure dirt in the same state and in the same units of concentration, but factors inherent in the methods make it impossible to achieve this. The results obtained by the reference method are expressed on a volume/volume basis whereas the preparation of the milk samples containing “standard” amounts of dirt (for use in preparing the photographic standards used in the rapid method) can only be carried out accurately on a mass/volume basis. (See also Hoyle, 1977.)

The relationship between results obtained by the reference method and the rapid method is discussed in Appendix A of BS 4938-2:1982.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 6, 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.