

Surfactant active agents — Determination of foaming power — Perforated disc beating method

The European Standard EN 12728:1999 has the status of a
British Standard

ICS 71.100.40

Confirmed June 2009

NO COPYING WITHOUT BSI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

BSI
Documents



Document Sharing Hub

National foreword

This British Standard is the official English language version of EN 12728:1999.
The UK participation in its preparation was entrusted to Technical Committee CII/34, Methods of test for surface active agents, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled “International Standards Correspondence Index”, or by using the “Find” facility of the BSI Standards Electronic Catalogue.

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, the EN title page, pages 2 to 14, an inside back cover and a back cover.

The BSI copyright notice displayed in this document indicates when the document was last issued.

This British Standard, having been prepared under the direction of the Sector Committee for Materials and Chemicals, was published under the authority of the Standards Committee and comes into effect on 15 February 2000

© BSI 02-2000

ISBN 0 580 35412 1

Amendments issued since publication

Amd. No.	Date	Comments

English version

Surface active agents - Determination of foaming power - Perforated disc beating method

Agents de surface - Détermination du pouvoir moussant -
Méthode par battage à l'aide d'un disque perforé

Grenzflächenaktive Stoffe - Bestimmung des
Schäumvermögens - Lochscheiben Schlagverfahren

This European Standard was approved by CEN on 17 September 1999.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR
NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Contents

	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Term and definition.....	5
4 Principle	5
5 Reagents	6
6 Apparatus	6
7 Sampling and preparation of test sample	6
8 Procedure	6
9 Expression of results	8
10 Test report	8
Annex A (informative) Examples for foam-beating apparatus.....	9
Annex B (normative) Dimensions of perforated discs.....	12
Annex C (informative) Cylinder foam beating apparatus	13
Annex D (informative) Typical foam curve.....	14

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 276, Surface active agents, the Secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2000, and conflicting national standards shall be withdrawn at the latest by May 2000.

Annex B is normative.

Annexes A, C and D are informative.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

In any assessment of surface active agents and formulations prepared from them, a knowledge of their foaming power can be an important factor; frequently, a particular level of foam formation should be demanded, whilst in other cases foam formation should be required to be minimal.

The special advantage of this beating method of foam determination is to yield comparable, parallel values for up to six solutions of surface active agents. In the same manner the stability/foam decomposition of this wet-foam, or its behaviour under stress, can be observed (water hardness, defoamer, fats etc). Serial trials can economically be carried out.

Usually, diluted solutions of 0,01 % (*m/m*) to 0,2 % (*m/m*) of the product under test are used, but low foaming agents can require contents of up to 1 % (*m/m*).

The interpretation and assessment of the foam character for practical use requires experience and sometimes use of other methods. Therefore, other methods exist, for example for fire extinguishing foam, dish washing liquids, shampoos etc., which are specifically adapted to the mechanical conditions of foam producing.