

**Implementation of
ISO 10348 : 1993**

**Photography —
Processing wastes —
Determination of silver content**

Product code 00642116
UDC 771.7.027 : 543.257 : 543.42 : 546.57

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee CPW/42, Photography — International coordination, upon which the following bodies were represented:

- British Film Institute
- British Institute of Professional Photography
- British Photographic Association
- Sira Limited

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Institute of Non-destructive Testing
- Chemical Industries Association
- Department of the Environment (Water Directorate)
- Royal Photographic Society

This British Standard, having been prepared under the direction of the Consumer Products and Services Sector Board, was published under the authority of the Standards Board and comes into effect on 15 January 1996

© BSI 1996

Amendments issued since publication

Amd. No.	Date	Text affected

The following BSI references relate to the work on this standard:
Committee reference CPW/42
Draft for comment 90/44775 DC

ISBN 0 580 25113 6

National foreword

This British Standard reproduces verbatim ISO 10348 : 1993 and implements it as the UK national standard.

This British Standard is published under the direction of the Consumer Products and Services Sector Board whose Technical Committee CPW/42 has the responsibility to:

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

NOTE. International and European Standards, as well as overseas standards, are available from Customer Services, BSI, 389 Chiswick High Road, London W4 4AL.

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

INTERNATIONAL STANDARD

ISO
10348

First edition
1993-02-01

Photography — Processing wastes — Determination of silver content

*Photographie — Effluents de traitement — Détermination de la teneur
en argent*



Reference number
ISO 10348:1993(E)

Contents

	Page
1 Scope	1
2 Normative references	1
3 Principle	2
3.1 Flame atomic absorption spectroscopy (AAS) methodology	2
3.2 Potentiometric titration (PT) methodology	2
4 Reliability	2
5 Safety and operational precautions	2
5.1 Hazard warnings	3
5.2 Hazard information code system	3
5.3 Safety precautions	3
5.4 Operational precautions	3
6 Reagents	4
7 Glassware	5
8 Sampling and sample pretreatment	5
8.1 Sampling and preservation	5
8.2 Sample size and pretreatment	6
9 Preparation of test sample	7
9.1 Cyanogen iodide (CNI) treatment	7
9.2 Concentration and digestion (Digestion A)	8
9.3 Vigorous digestion (Digestion B)	8
10 Analysis by atomic absorption spectroscopy (AAS)	9
10.1 Special apparatus	9
10.2 Procedure	9
11 Analysis by potentiometric iodide titration (PT)	9
11.1 Special apparatus	10

© ISO 1993
All rights reserved. No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.
International Organization for Standardization
Case Postale 56 • CH-1211 Genève 20 • Switzerland
Printed in Switzerland

11.2	Procedure	10
11.3	Calculations for titration methods	10

Annex

A	Preparation of reagent solutions	12
A.1	Preparation of cyanogen iodide solution (CNI) (DANGER: << S >> < B > < C >)	12
A.2	Preparation of silver standard solutions (0,5 mg/l, 1,0 mg/l, 3,0 mg/l and 5,0 mg/l) for AAS method	12
A.3	Preparation of silver nitrate standard solutions (0,100 mol/l, 0,010 mol/l and 0,001 mol/l) for PT methods	13
A.4	Preparation of potassium iodide standard solutions (0,1 mol/l, 0,01 mol/l and 0,001 mol/l)	13

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 10348 was prepared by Technical Committee ISO/TC 42, *Photography*.

Annex A forms an integral part of this International Standard.