

INTERNATIONAL  
STANDARD  
ISO

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Second edition  
1998-11-15

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## Hydraulic fluid power — Filter elements — Verification of material compatibility with fluids

*Transmissions hydrauliques — Éléments filtrants — Vérification de la  
compatibilité des matériaux avec les fluides*



Reference number  
ISO 2943:1998(E)

## **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 2943 was prepared by Technical Committee ISO/TC 131, *Fluid power systems*, Subcommittee SC 6, *Contamination control and hydraulic fluids*.

This second edition cancels and replaces the first edition (ISO 2943:1987), which has been technically revised. It now includes provisions for verifying material compatibility at low temperatures and a method for reporting test data.

Annex A forms an integral part of this International Standard.

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## Introduction

In hydraulic fluid power systems, power is transmitted and controlled through a liquid under pressure within an enclosed circuit. Filters maintain fluid cleanliness by removing insoluble contaminants.

The filter element is the porous device which performs the actual process of filtration.