

This is a preview of "ISO 12500-1:2007". [Click here to purchase the full version from the ANSI store.](#)

First edition  
2007-06-01

---

---

## **Filters for compressed air — Test methods —**

### **Part 1: Oil aerosols**

*Filtres pour air comprimé — Méthodes d'essai —*

*Partie 1: Aérosols d'huile*



Reference number  
ISO 12500-1:2007(E)

© ISO 2007

This is a preview of "ISO 12500-1:2007". [Click here to purchase the full version from the ANSI store.](#)

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2007

All rights reserved. Unless otherwise specified, 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 either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

This is a preview of "ISO 12500-1:2007". [Click here to purchase the full version from the ANSI store.](#)

## Contents

	Page
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>2</b>
<b>4 Units and symbols</b> .....	<b>2</b>
<b>5 Reference conditions</b> .....	<b>3</b>
<b>6 Test requirements</b> .....	<b>3</b>
<b>7 Test method</b> .....	<b>5</b>
<b>8 Uncertainty</b> .....	<b>6</b>
<b>9 Test report</b> .....	<b>7</b>
<b>Annex A (informative) Sample test report form</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>9</b>

## 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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 12500-1 was prepared by Technical Committee ISO/TC 118, *Compressors and pneumatic tools, machines and equipment*, Subcommittee SC 4, *Quality of compressed air*.

ISO 12500 consists of the following parts, under the general title *Filters for compressed air — Test methods*:

- *Part 1: Oil aerosols*
- *Part 2: Oil vapours*
- *Part 3: Particulates*

This is a preview of "ISO 12500-1:2007". [Click here to purchase the full version from the ANSI store.](#)

## Introduction

Oil aerosols are a typical contaminant found in compressed air streams. Coalescing filters are designed to remove oil aerosols from compressed air.

The most important performance characteristics are the ability of the filter to remove oil aerosols from the air stream and the amount of pressure drop caused by the filter as compressed air flows through it when the filter element is saturated with oil. This part of ISO 12500 provides a means of comparing the performance of filters.

This is a preview of "ISO 12500-1:2007". [Click here to purchase the full version from the ANSI store.](#)