
Aerospace fluid systems — Elastomer seals — Storage and shelf life

*Systèmes de fluides pour l'aéronautique et l'espace — Joints
élastomères — Stockage et durée de conservation*



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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
Web www.iso.org

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Foreword

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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 27996 was prepared by Technical Committee ISO/TC 20, *Aircraft and Space Vehicles*, Subcommittee SC 10, *Aerospace fluid systems and components*.

Introduction

In fluid power systems, power is transmitted and controlled through a fluid (liquid or gas) under pressure within an enclosed circuit. Components are designed to meet these requirements under varying conditions. Testing of components to meet performance requirements provides users a basis of assurance for determining design application and for checking component compliance with their stated requirements.

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1 Scope

This International Standard is applicable to the general requirements for data recording procedures, packaging, and storing of elastomeric seals and seal assemblies which include an elastomeric element prior to the seal being assembled into hardware components.

The requirements for packaging are an integral part of the controlled storage procedure and provide a means of positive product identity from the time of manufacture to the time of assembly into a component.

This International Standard does not establish limitations or storage times for assembled components nor the operating life of these components.

The information contained in this International Standard is intended for use by those organizations that do not have specific requirements or recommendations already in place for the control of elastomeric seals and seal assemblies.

This International Standard can be specified in control, storage and procurement documents. However, when the requirements of this International Standard are in conflict with the customer's requirements or specifications, the requirements of the customer's detailed specifications take precedence.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1629, *Rubbers and lattices — Nomenclature*

ISO 5598, *Fluid power systems and components — Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5598 and the following apply.

3.1

date of vulcanization

date on which the elastomer product was vulcanized

NOTE Date of vulcanization is expressed in quarters (Q) of a year.

EXAMPLE 4Q08 (October to December, 2008).

3.2

elastomer

material that possesses elastic properties and has undergone vulcanization and/or conversion into a finished product

NOTE The basic building block of elastomer is the rubber polymer it contains.