

**Aerospace series - Pipe couplings,
loose flanges and seals, - Seals in
fluorocarbon rubber and armature in
aluminium alloy**

Aerospace series - Pipe couplings, loose flanges
and seals, - Seals in fluorocarbon rubber and
armature in aluminium alloy

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 3869:2005 sisaldab Euroopa standardi EN 3869:2004 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 25.01.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 3869:2005 consists of the English text of the European standard EN 3869:2004.</p> <p>This document is endorsed on 25.01.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala: This standard specifies the characteristics of seals for pipe couplings in fluorocarbon rubber and armature in aluminium alloy for aerospace applications</p>	<p>Scope: This standard specifies the characteristics of seals for pipe couplings in fluorocarbon rubber and armature in aluminium alloy for aerospace applications</p>
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ICS 49.080

Võtmesõnad:

English version

**Aerospace series - Pipe couplings, loose flanges and seals -
Seals in fluorocarbon rubber and armature in aluminium alloy**

Série aérospatiale - Raccords, brides amovibles et joints -
Joints en élastomère fluorocarbène et armature en alliage
d'aluminium

Luft- und Raumfahrt - Rohrverbindungen mit losen
Flanschen und Flachdichtungen - Dichtungen aus Fluor-
Elastomer mit Aluminiumarmierung

This European Standard was approved by CEN on 11 September 2003.

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.

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Foreword

This document (EN 3869:2004) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

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 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes EN 3869:2003.

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

1 Scope

This standard specifies the characteristics of seals for pipe couplings in fluorocarbon rubber and armature in aluminium alloy, for aerospace applications.

NOTE Assembly in accordance with TR 4053

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.

EN 2424, *Aerospace series — Marking of aerospace products*

EN 2699, *Aerospace series — Aluminium alloy (5086) — Annealed and straightened (H111) — Drawn bar — $6 \leq D \leq 50$ mm*¹⁾

EN 2798, *Aerospace series — Fluorocarbon rubber (FPM) — Low compression set — Hardness 80 IRHD*²⁾

EN 4054, *Aerospace series — Pipe couplings, loose flanges and seals — Seals in fluorocarbon rubber and armature in aluminium alloy — Technical specification*

TR 4053, *Aerospace series — Pipe couplings, loose flanges and seals in titanium alloy — Assembly recommendations*³⁾

3 Required characteristics

3.1 Configuration – Dimensions – Tolerances – Masses

See Figure 1 and Table 1. Dimensions and tolerances are in millimetres.

3.2 Materials

EN 2699 and EN 2798

3.3 Bonding

Two parts seal shall be bonded.

1) Published as AECMA Standard at the date of publication of this standard

2) Published as AECMA Prestandard at the date of publication of this standard

3) Published as AECMA Technical Report at the date of publication of this standard