

**Aerospace series - Acrylonitrile-butadiene rubber (NBR)  
- Fuel and synthetic oil resistant - Hardness 70 IRHD**

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## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 2847:2013 sisaldab Euroopa standardi EN 2847:2013 ingliskeelset teksti.	This Estonian standard EVS-EN 2847:2013 consists of the English text of the European standard EN 2847:2013.
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Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 20.02.2013.	Date of Availability of the European standard is 20.02.2013.
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English Version

**Aerospace series - Acrylonitrile-butadiene rubber (NBR) - Fuel  
and synthetic oil resistant - Hardness 70 IRHD**

Série aérospatiale - Élastomère acrylonitrile butadiène  
(NBR) - Résistant aux carburants et aux huiles  
synthétiques - Dureté 70 DIDC

Luft- und Raumfahrt - Acrylnitril-Butadien-Elastomer (NBR)  
- Beständig gegen Brennstoffe und synthetische Öle -  
Härte 70 IRHD

This European Standard was approved by CEN on 3 November 2012.

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 CEN-CENELEC Management Centre 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 CEN-CENELEC Management Centre has the same status as the official versions.

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## Foreword

This document (EN 2847:2013) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-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 ASD, 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 August 2013, and conflicting national standards shall be withdrawn at the latest by August 2013.

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## 1 Scope

This European Standard specifies the properties of acrylonitrile-butadiene rubber (NBR) <sup>1)</sup>, fuel and synthetic oil resistant, hardness 70 IRHD, for aerospace applications.

## 2 Normative references

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

EN 3207, *Aerospace series — Rubber compounds — Technical specification*

ISO 1817, *Rubber, vulcanized or thermoplastic — Determination of the effect of liquids*

## 3 Application of the material

### 3.1 General

The suitability of the material for a specific application shall be determined by complementary tests carried out on the finished product as the properties specified in this standard are obtained from standard test specimens.

### 3.2 Typical use

For applications where resistance to petroleum based fuels and diester based lubricants is required.

### 3.3 Temperature range

- Continuous service : from – 40 °C to 120 °C;
- Intermittent service : from – 40 °C to 150 °C.

## 4 Properties

See Table 1 and Table 2 according to EN 3207.

For qualification, all tests shall be performed.

For batch acceptance, the tests identified with footnote "a" in Table 1 and Table 2 shall be performed.

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1) Symbol as per ISO 1629.