ASD-STAN STANDARD NORME ASD-STAN ASD-STAN NORM

ASD-STAN prEN 4854-1

Edition P1
2018-01



PUBLISHED BY THE AEROSPACE AND DEFENCE INDUSTRIES ASSOCIATION OF EUROPE - STANDARDIZATION Rue Montoyer 10 - 1000 Brussels - Tel. + $32\ 2\ 775\ 8126$ - Fax. + $32\ 2\ 775\ 8131$ - <u>www.asd-stan.org</u>

ICS:

Descriptors:

ENGLISH VERSION

Aerospace series — Bearing, spherical plain, in corrosion resisting steel with self-lubricating liner, low starting torque and low friction coefficient, elevated duty cycles under low oscillations at different operating conditions — Part 1: Dimensions and loads for narrow series

Luft- und Raumfahrt — Gelenklager aus korrosionsbeständigem Stahl mit selbstschmierender Beschichtung, geringem Losbrechmoment und niedrigem Reibungskoeffizient, hohe Anzahl an gering oszillierenden Belastungszyklen bei unterschiedlichen Einsatzbedingungen — Teil 1: Maße und Belastungen, schmale Reihe

Série aérospatiale — Rotules en acier résistant à la corrosion à garniture autolubrifiante, faible couple de démarrage et faible coefficient de frottement, cycles d'endurances élevés sous faibles oscillations à différentes conditions de fonctionnement — Partie 1 :

Dimensions et charges, série étroite

This "Aerospace Series" Prestandard has been drawn up under the responsibility of ASD-STAN (The AeroSpace and Defence Industries Association of Europe - Standardization). It is published for the needs of the European Aerospace Industry. It has been technically approved by the experts of the concerned Domain following member comments.

Subsequent to the publication of this Prestandard, the technical content shall not be changed to an extent that interchangeability is affected, physically or functionally, without re-identification of the standard.

After examination and review by users and formal agreement of ASD-STAN, the ASD-STAN prEN will be submitted as a draft European Standard (prEN) to CEN (European Committee for Standardization) for formal vote and transformation to full European Standard (EN).

The CEN national members have then to implement the EN at national level by giving the EN the status of a national standard and by withdrawing any national standards conflicting with the EN.

ASD-STAN Technical Committee approves that: "This document is published by ASD-STAN for the needs of the European Aerospace Industry. The use of this standard is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

ASD-STAN reviews each standard and technical report at least every five years at which time it may be revised, reaffirmed, stabilized or cancelled. ASD-STAN invites you to send your written comments or any suggestions that may arise.

All rights reserved. No parts of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of ASD-STAN.

Order details: E-mail: sales@asd-stan.org
Web address: http://www.asd-stan.org/

Edition approved for publication	Comments should be sent within six months	Mechanical Domain
1 st January 2018	after the date of publication to	
	ASD-STAN	

Contents

		Page
1	Scope	3
2	Normative references	
3	Terms and definitions	4
4	Symbols and abbreviations	4
5	Requirements	4
5.1	Configuration, dimensions, tolerances and mass	4
5.2	Surface roughness	5
5.3	Material	5
5.4	Surface treatment	5
5.5	Loads and starting torques	11
6	Designation	
7	Marking	12
8	Technical specification	12
9	Quality management system	
Bibli	ography	13

Foreword

This document (prEN 4854-1) 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.