

BS EN 3386:2012



BSI Standards Publication

Aerospace series — Rings retaining, radial mounting, steel, phosphated

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National foreword

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The UK participation in its preparation was entrusted to Technical Committee ACE/12, Aerospace fasteners and fastening systems.

A list of organizations represented on this committee can be obtained on request to its secretary.

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EUROPEAN STANDARD

EN 3386

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

**Aerospace series - Rings retaining, radial mounting, steel,
phosphated**Série aérospatiale - Anneaux d'arrêt, à montage radial, en
acier, phosphatésLuft- und Raumfahrt - Sicherungsringe, radial montierbar,
aus Stahl, phosphatiert

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Foreword

This document (EN 3386:2012) 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of an identical text or by endorsement, at the latest by September 2012, and conflicting national standards shall be withdrawn at the latest by September 2012.

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1 Scope and field of application

This standard defines the characteristics of radial mounting retaining rings, in steel, phosphated, for aerospace applications.

These retaining rings are used only when EN 3384 cannot be used for installation problems.

The phosphating restricts the use at temperatures not exceeding 200 °C.

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 2424, *Aerospace series — Marking of aerospace products*

EN 3380, *Aerospace series — Rings retaining — Technical specification*

EN 3384, *Aerospace series — Rings, retaining, external, axial mounting, steel, phosphated*¹⁾

EN 3427, *Aerospace series — Groove dimensions for axial mounting external type retaining rings*

3 Required characteristics

3.1 Configuration — Dimensions — Masses

See figure 1 and table.

The values shown in the table are applicable after phosphating.

3.2 Materials

Spring steel: 480–530 HV

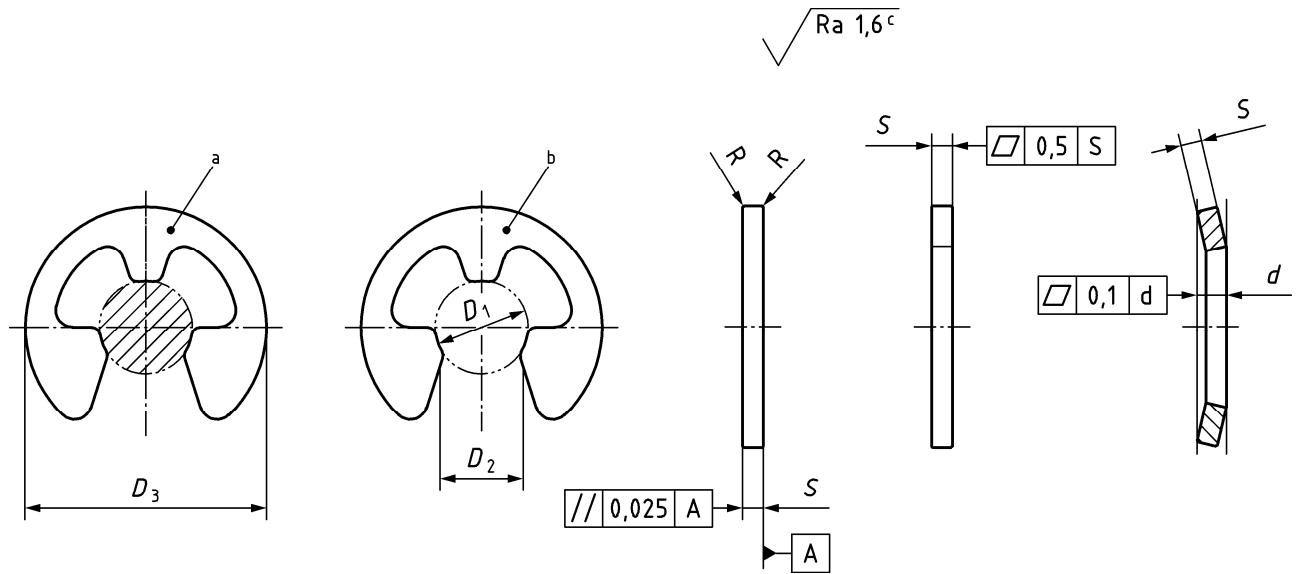
3.3 Surface treatment

Phosphate to EN 2793, class A

Before storing, the ring shall be protected by grease or oil.

1) Published as ASD-STAN pre-standard at the date of publication of the present standard.

NOTE Details of form not stated are left to the manufacturer's option.



Key:

- a Installed
- b Free
- c Apply prior to phosphating

Figure 1

Table 1

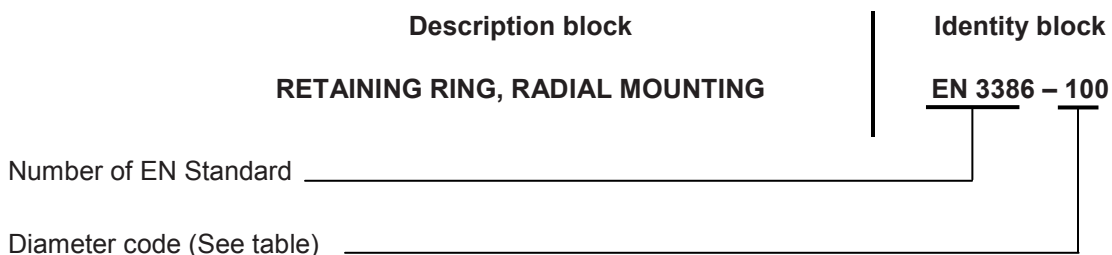
Dimensions in millimetres

D_1^b		D_2	D_3	S		R	P	Mass ^c	
Code	nom.	H10	max.	nom.	Tol.			kg/1 000	
008	0,8	0,58	2	0,2	+0,02	0,04	0,1	0,003	
012	1,2	1,01	3	0,3				0,009	
015	1,5	1,28	4	0,4				0,021	
019	1,9	1,61	4,5	0,5				0,040	
023	2,3	1,94	6	0,6				0,069	
032	3,2	2,7	7			0,088			
040	4	3,34	9	0,7		0,06		0,158	
050	5	4,11	11			0,07		0,236	
060	6	5,26	12			0,08		0,255	
070	7	5,84	14	0,9		0,474			
080	8	6,52	16	1	+0,03	0,1	0,660		
090	9	7,63	18,5	1,1			1,090		
100	10	8,32	20	1,2			1,250		
120	12	10,45	23	1,3			1,630		
150	15	12,61	29	1,5			3,370		
190	19	15,92	37	1,75			6,420		
240	24	21,88	44	2			0,12	0,15	8,550
300	30	25,8	52	2,5			0,15		13,500

^a Values apply after phosphating.
^b Corresponds to the diameter of the groove in which the ring shall be mounted (see EN 3427).
^c Approximate values, calculated on the basis of 7,85 kg/dm³, given for information purpose only.

4 Designation

EXAMPLE



NOTE If necessary, the originator code I9005 shall be placed between the description block and the identity block.

5 Marking

EN 2424, style G.

6 Technical specification

EN 3380

7 Mounting

EN 3427

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