

IRISH STANDARD

I.S. EN 3899:2005 ICS 49.030.30

AEROSPACE SERIES - INSERTS,
THICKWALL, SELF-LOCKING, MJ THREADS,
IN HEAT RESISTING STEEL FE-PM3801
(17-4PH) - TECHNICAL SPECIFICATION

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 3899

November 2004

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English version

Aerospace series - Inserts, thickwall, self-locking, MJ threads, in heat resisting steel FE-PM3801 (17-4PH) - Technical specification

Série aérospatiale - Douilles filetées, à paroi renforcée, à freinage interne, à filetage MJ, en acier résistant à chaud FE-PM3801 (17-4PH) - Spécification technique

Luft- und Raumfahrt - Gewindeeinsätze, dickwandig, selbstsichernd, MJ-Gewinde, aus hochwarmfestem Stahl FE-PM3801 (17-4PH) - Technische Lieferbedingungen

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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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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EN 3899:2004 (E)

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EN 3899:2004 (E)

Foreword

This document (EN 3899:2004) 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of an identical text or by endorsement, at the latest by May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.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 3899:2003.

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 United Kingdom.

1 Scope

This standard specifies the characteristics, qualification and acceptance requirements for self-locking thickwall inserts with MJ threads, in FE-PM3801, for aerospace applications.

It is applicable whenever referenced.

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 2859-1,	Sampling procedures for inspection by attributes – Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection
ISO 3452,	Non-destructive testing – Penetrant inspection – General principles
ISO 4288,	Geometrical Product Specifications (GPS) – Surface texture: Profile method – Rules and procedures for the assessment of surface texture
ISO 5855-2,	Aerospace – MJ threads – Part 2: Limit dimensions for bolts and nuts
ISO 7481,	Aerospace – Nuts, self-locking, with maximum operating temperature less than or equal to 425 $^{\circ}\text{C}$ – Test methods
EN 2638,	Aerospace series – Aluminium alloy 2024-T3, extruded bar and section – $1,2 \le (a \text{ or } D) \le 150 \text{ mm}$ with coarse peripheral grain control $^{1)}$
EN 3906,	Aerospace series – Martensitic corrosion resisting steel FE-PM3801 – Air melted – Solution treated – Bar – D \leq 50 mm – For the manufacture of fasteners – 1 100 MPa \leq R _m \leq 1 300 MPa 1
EN 4014,	Aerospace series – Inserts, thickwall, self-locking – Design standard
EN 4015,	Aerospace series – Inserts, thickwall, self-locking – Installation and removal procedure
EN 9133,	$\label{eq:continuous} \textit{Aerospace series} - \textit{Quality management systems} - \textit{Qualification procedure for aerospace standard parts} \ ^{1)}$

3 Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

ASTM E112-96, Standard Test Methods for Determining Average Grain Size 2)

3.1

batch

quantity of finished parts, of the same type and same diameter, produced from the same material obtained from the same melt, manufactured in the course of the same production cycle, following the same manufacturing route and having undergone all the relevant heat treatments and surface treatments

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

²⁾ Published by: American Society for Testing and Materials (ASTM), 1916, Race street, Philadelphia, PA 19103, USA



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