



AEROSPACE STANDARD	AS20708™/94	REV. C
	Issued 2004-04 Revised 2011-10 Stabilized 2017-05 Superseding AS20708/94B	
Synchro, 60 and 400 Hz, Size 23		FSC 5990

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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NOTICE

The complete requirements for procuring the Synchro described herein shall consist of this document and the issue in effect of SAE AS20708.

1. SCOPE

1.1 This specification covers the detail requirements for 115 volt, 60 and 400 Hz, size 23 synchros (see 6.1).

2. APPLICABLE DOCUMENTS

2.1 The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of the other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or 724-776-4970 (outside USA), www.sae.org.

AS20708 Synchros, General Specification For

2.1.2 NAS Publications

Available from Aerospace Industries Association, 1000 Wilson Boulevard, Suite 1700, Arlington, VA 22209-3928, Tel: 703-358-1000, www.aia-aerospace.org.

NASM35275 Screw, Machine-Drilled Fillister Head, Slotted, Corrosion Resisting Steel, Passivated, UNC-2A

NASM35333 Washer, Lock, Flat-Internal Tooth

NASM35338 Washer, Lock-Spring, Helical, Regular (Medium) Series

2.1.3 U. S. Government Publications

Available from the Document Automation and Production Service (DAPS), Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Tel: 215-697-9495, <https://assist.daps.dla.mil/quicksearch/>.

COMMERCIAL ITEM DESCRIPTION

A-A-208 Ink, Marking, Stencil, Opaque (Porous and Non-porous Surfaces)

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-710 Synchros, 60 and 400 Hz, Selection and Application of

MIL-STD-202 Test Methods for Electronic and Electrical Component Parts

MS17186 Washer, Drive (Synchro)

MS17187 Nut, Plain, Hexagon

MS51972 Nut, Plain, Hexagon-steel, Corrosion Resisting, 300 Series, Passivated, UNF-2B

3. REQUIREMENTS

3.1 First Article

Synchros furnished under this specification shall be a product, which has been tested and has passed the first article inspection specified in accordance with 4.2.

3.2 Design and Construction

Synchros furnished under this specification shall conform with the design, construction, and physical dimensions specified in Figure 1.

3.2.1 Housings

Not applicable.

3.2.2 Slip Rings

Not applicable.

3.3 General Requirements

All requirements shall be in accordance with SAE AS20708, except as otherwise specified herein. In case of conflict between the requirements of SAE AS20708 and this specification, the requirements of this specification shall govern.

3.3.1 Altitude

Not applicable.

3.3.2 Vibration

Synchros shall withstand mechanical vibrations of 0.10 ± 0.02 inch amplitude up to 60 Hz perpendicular and parallel to the shaft axis for a period of 8 hours $\pm$ 15 minutes without mechanical damage or loosening of parts, and without degradation in performance to the extent specified in SAE AS20708, following conformance to the vibration requirement.