

European Aviation Safety Agency

European Technical Standard Order

Subject: TORSO RESTRAINT SYSTEMS

1 - Applicability

This ETSO gives the requirements which torso restraint systems that are manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

2 - Procedures

2.1 - General

Applicable procedures are detailed in CS-ETSO Subpart A.

2.2 - Specific

None.

3 - Technical Conditions

3.1 - Basic

3.1.1 - Minimum Performance Standard

Standards set forth in the SAE Aerospace Standard (AS) document: AS 8043 „Aircraft Torso Restraint System“, dated March, 1986.

3.1.2 - Environmental Standards

- (i) American Society for Testing Materials .(ASTM) G23-81, Standard Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials.
- (ii) ASTM D117-73, Standard Method of Salt Spray (Fog) Testing.
- (iii) ASTM D756-78, Standard Practice for Determination of Weight and Shape Changes of Plastics Under Accelerated Service Conditions.

3.1.3 - Tests Methods

- (i) American Association of Textile Chemists and Colorists (AATCC) Standard Test Method 8-1981, Colorfastness to Crocking.
- (ii) AATCC Standard Test Method 107-1 981, Colorfastness to Water.
- (iii) Federal Test Method Standard 191 Method 5906.
- (iv) AATCC Chart for Measuring Transference of Color.

3.1.4 - Computer Software

None

3.2 - Specific

None

4 - Marking

4.1 - General

Marking is detailed in CS-ETSO Subpart A paragraph 1.2.

4.2 - Specific

None

5 - Availability of Referenced Document

- See CS-ETSO Subpart A paragraph 3.
- AATCC Chart for Measuring Transference of Color and Standard Test Materials 8-1981 and 107-1981 may be purchased from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709.
- Federal Test Method Standard 191 Method 5906 may be purchased from the Commanding Officer, Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120.