

## Appendix F – Laboratories Actively Using Fire Test Procedures

The companies listed in table F-1 (as reported to us) are actively using the fire test procedures in this Handbook (this list is not complete or all-inclusive).

**Table F-1. Laboratories Actively Using Fire Test Procedures**

LABORATORY/COMPANY NAME	TESTS CONDUCTED
ACES, Inc. 202 N. Park Street P.O. Box 411 Maize, KS 67101 Phone: 316-265-8335 Fax: 316-221-1039 Website: <a href="http://www.aces.aero">www.aces.aero</a>	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 12*, 23*, 24*, 25*
Accufleet Testing Services, Inc. 1959 S. Starpoint Drive Houston, TX 77032 Phone: 281-999-8800 Ext. 1111 Email: <a href="mailto:TEST@AccuFleet.com">TEST@AccuFleet.com</a> Website: <a href="http://www.accufleet.com">www.accufleet.com</a>	Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 15*, 24*, 25*
Aearo Technologies, LLC, a 3M Company 7911 Zionsville Road Indianapolis, IN 46268 Phone: 317-982-3304 Website: <a href="http://www.earsc.com">www.earsc.com</a> Contact: Mary Colston Email: <a href="mailto:mary.colston@mmm.com">mary.colston@mmm.com</a>	Chapters: 1, 3, 23 (not offered commercially)
Aeroblaze Laboratory 12819 Harmon Road, #575 Fort Worth, TX 76177 Phone: 817-668-0628 Email: <a href="mailto:info@aeroblazelab.com">info@aeroblazelab.com</a> Website: <a href="http://www.aeroblazelab.com">www.aeroblazelab.com</a>	Chapters: 1*, 2*, 3*, 4*, 7*, 10*, 18*
AIM Aerospace Inc. 705 S.W. 7 <sup>th</sup> Street Renton, WA 98057 Phone: 425-235-2750 Fax: 425-228-0761 Website: <a href="http://www.aim-aerospace.com">www.aim-aerospace.com</a>	Chapters: 1*, 2*, 3*, 5*, 6*
AIM Composites Limited Pembroke Avenue Waterbeach, Cambridge, CB25 9QR United Kingdom Phone: (44) 1223 441000 Website: <a href="http://www.aimaltitude.com">www.aimaltitude.com</a> Email: <a href="mailto:labs@aimaltitude.com">labs@aimaltitude.com</a>	Chapters: 1*, 2*, 3*, 4*, 5*, 6*

\*Commercial testing services offered.

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Air Capital Certification Services, Inc. 2946 S. Hydraulic Street Wichita, KS 67216 Phone: 316-524-4466 Fax: 316-524-4455 Email: rclossin@lpesionline@com Website: www.lpesionline.com	Chapters: 1*, 2*, 3*
Airbus Operations GmbH Department ESCMB2 Fire Safety & Engineering Test Airbus-Allee 1 28199 Bremen, Germany Phone: (49) 421 538 6209/4860 Fax: (49) 421 538 3999/4852 Website: www.airbus.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 15*, 19*, 23*, 24* Chapters: 11, 12, 13, 14, 25 (not offered commercially)
Andrew Muirhead & Son Limited 273-289 Dunn Street Glasgow, Scotland, UK G40 3EA Phone: (44) (0) 141 554 3724 Fax: (44) (0) 141 554 4741 Website: www.muirhead.co.uk	Chapters: 1*, 6*
Blue Flame Laboratory 1612 Lima Drive San Luis Obispo, CA 93405-6815 Phone: 805-440-0073 Email: coleeminger@charter.net	Chapters: 1*, 2*, 3*, 4*
Boeing – BR&T HB Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com	Chapters: 1*, 2*, 3*, 4*
Boeing Research and Technology Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-544-2699 Website: www.boeing.com/bts Email: bts@boeing.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 9*
Boeing Test and Evaluation Boeing Technology Services P.O. Box 3707, MC 1W-02 Seattle, WA 98124-2207 Phone: 206-544-2699 Website: www.boeing.com/bts	Chapters: 7*, 8*, 10*, 12*, 14*, 15*, 24* Chapter: 11 (not commercially available)

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Email: <a href="mailto:bts@boeing.com">bts@boeing.com</a>	
CHESTNUT RIDGE FOAM INC. 443 Warehouse Drive Latrobe, PA 15650 Phone: 800-234-2734 Website: <a href="http://www.chestnutridgefoam.com">www.chestnutridgefoam.com</a>	Chapters: 1*, 6*, 7*
John R. Colao, Inc. 1299 Wooden Valley Crossroad Napa, CA 94558 Phone: 707-425-9666 Email: <a href="mailto:colao@earthlink.net">colao@earthlink.net</a>	Chapters: 1*, 2*, 3*, 4*
CREPIM Parc de la Porte Nord Rue Christophe Colomb Bruay-La-Buissiere, France, 62700 Phone: (33) (0) 3 21 61 64 00 Fax: (33) (0) 3 21 61 64 01 Website: <a href="http://www.crepim.fr">www.crepim.fr</a> Email: <a href="mailto:contact@crepim.fr">contact@crepim.fr</a>	Chapters: 1*, 2*, 3*, 4*, 6*
CTA, Aeronautical Technologies Center Parque Tecnológico de Alava 01510 Minano, Alava, Spain Phone: (34) 945 296 924 Fax: (34) 945 296 923 Website: <a href="http://www.ctaero.com">www.ctaero.com</a>	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*
Currenta GmbH & Co. OHG Chempark, Geb. B411 D-51368 Leverkusen, Germany Phone: (49) 214 30 34416 Fax: (49) 214 30 96 34416 Website: <a href="http://www.fire-testing.eu">www.fire-testing.eu</a> Email: <a href="mailto:brandtechnologie@currenta.de">brandtechnologie@currenta.de</a>	Chapters: 1*, 5*, 6*
CUSTOM SCIENTIFIC INSTRUMENTS INC. – CSI Testing Laboratories 1125 Conroy Place Forks Township Easton, PA 18040 Phone: 610-923-6500 Fax: 610-923-6543 Website: <a href="http://www.CSItestlab.com">www.CSItestlab.com</a>	Chapters: 1*, 2*, 3*, 4*, 5*, 23*, 24*
DGA Techniques Aeronautiques Centre d'Essais Aeronautiques de Toulouse 47 rue Saint-Jean BP 93123 31131 Balma Cedex, France Phone: (33) 5 6257 5050/5428	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 15*, 23*, 24*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Fax: (33) 5 6257 5032	
DLR-Material Test Center - Fire Performance Eugen-Saenger-Str. 50 29328 Fassberg, Germany Phone: (49) 551 709 2115 Fax: (49) 551 709 12115	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 11*, 12*, 15*, 19*
Duncan Aviation, Inc. 15745 S. Airport Road Battle Creek, MI 49015 Phone: 269-969-8400 Fax: 269-968-8273 Website: www.duncanaviation.com	Chapters: 1*, 2*, 3*, 4*, 10*
Element Jupiter 15814 Corporate Circle Jupiter, FL 33178 Phone: 561-776-7339 Fax: 561-776-7344 Website: www.element.com	Chapters: 11*, 12*, 13*, 14*
Element Los Angeles 1857 Business Center Drive Duarte, CA 91010 Phone: 818-247-4106 Fax: 818-247-4537 Website: www.delsen.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 19*
Element Minneapolis 9725 Girard Avenue South Minneapolis, MN 55431-2621 Phone: 1-952-888-7795 Fax: 952-888-6345 Website: <a href="https://www.element.com/locations/usa/minneapolis">https://www.element.com/locations/usa/minneapolis</a>	Chapters: 1*, 2*, 3*, 4*, 11*, 12*, 13*, 14*
Embraer Engineering and Technology Center 1400 General Aviation Drive Melbourne, FL 32935 Phone: 321-752-8650 Fax: 321-752-3000 Email: russell.wilcken@embraer.com Website: <a href="http://embraer.com">http://embraer.com</a>	Chapters: 1, 2, 3, 4
Embraer Flammability Laboratory Av. Brigadeiro Faria Lima, 2170 12227-901, Sao Jose dos Campos – SP Brazil Phone: (55) 12 3927 2049 Website: www.embraer.com	Chapters: 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13, 15, 18, 19, 23, 24 (no tests offered commercially)
Exova Canada	Chapters: 1*, 2*, 3*, 6*, 19*

\*Commercial testing services offered.

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
2395 Speakman Drive Mississauga, Ontario Canada L5K 1B3 Phone: 905-822-4111 Fax: 905-823-1446 Website: www.exova.com Email: sales@exova.com	
Exova GmbH Industriepark Hoechst, Building C 369 65926 Frankfurt am Main, Germany Phone: (49) (0) 69 3 05 3476 Fax: (49) (0) 69 3 05 1 70 71 Website: www.exova.com Email: ebh@exova.com	Chapters: 1*, 2*, 3*, 4*, 6*, 7*
Flame-Tek, LLC 1515 North Center Street, Suite #1 Lonoke, AR 72086 Phone: 208-569-6093 Website: www.flame-tek.com Email: brad.shelton@flame-tek.com	Chapters: 1*, 2*, 3*, 4*, 23*
Franklin Products, Inc. 153 Water Street Torrington, CT 06790 Phone: 860-482-0266 Fax: 860-482-6759 Website: www.franklinproducts.net Email: jshailer@franklinproducts.net	Chapter: 1*
General Plastics Manufacturing Company 4910 Burlington Way Tacoma, WA 98409 Phone: 253-473-5000 Website: www.generalplastics.com Email: tod_maurmann@generalplastics.com	Chapters: 1*, 2*, 3*, 5*, 6*, 7*
Greiner aerospace d.o.o. Goliješnica bb 72230 Žepče, Bosnia and Herzegovina Phone: +387 32889 018 Fax: +387 32889 017 Website: www.greiner-aerospace.com Email: office.bih@greiner-aerospace.com	Chapter: 1, 3 (not offered commercially)
Greiner aerospace GmbH Emesbergstrasse 33 4643 Pettenbach, Austria Phone: +43 50 541-23222 Fax: +43 50 541-23033 Email: office.at@greiner-aerospace.com	Chapter: 1, 7 (not offered commercially)

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Website: <a href="http://www.greiner-aerospace.com">www.greiner-aerospace.com</a> Greiner Aerospace Inc. 7621 Pebble Drive, Building 22 76118 Fort Worth, TX, USA Phone: +1 817 686 3100 Fax: +1 817 686 3199 Website: <a href="http://www.greiner-aerospace.com">www.greiner-aerospace.com</a> Email: <a href="mailto:office.us@greiner-aerospace.com">office.us@greiner-aerospace.com</a>	Chapter: 1 (not offered commercially)
Greiner Aerospace CZ spol s r.o. Komenského 895 340 22 Nýrsko, Czech Republic Phone: +420 376 804 120 Fax: +420 376 804 Website: <a href="http://www.greiner-aerospace.com">www.greiner-aerospace.com</a> Email: <a href="mailto:office.cz@greiner-aerospace.com">office.cz@greiner-aerospace.com</a>	Chapter: 1 (not offered commercially)
Greiner Aerospace (Shanghai) Ltd. Building 13/C2, No. 260, Liancao Rd, Minhang District, Shanghai 201108 P.R. China Phone: +86 21 6434 0300 Fax: +86 21 6434 5550 Website: <a href="http://www.greiner-aerospace.com">www.greiner-aerospace.com</a> Email: <a href="mailto:office.cn@greiner-aerospace.com">office.cn@greiner-aerospace.com</a>	Chapter: 1 (not offered commercially)
HAECO Americas Cabin Solutions 5568 Gumtree Road Winston-Salem, NC 27107 Phone: 336-464-0122 Website: <a href="http://www.haeco.aero">www.haeco.aero</a>	Chapters: 1*, 3*, 4*, 5*, 6*, 7*
Heath Tecna Inc. 3225 Woburn Street Bellingham, WA 98226 Phone: 360-738-2005 Fax: 360-715-3999	Chapters: 1*, 2*, 3*, 4*, 5*, 6*
Herb Curry Inc. 1701 Leonard Road P.O. Box 753 Mt. Vernon, IN 47620 Phone: 812-838-6703 Fax: 812-838-6712	Chapters: 1*, 2*, 3*, 5*, 6*
INDUSTRIAL NEOTEX S.A. C/Forjadores, Parcela 17-11 Pol. Ind. Prado del Espino Boadilla del Monte (Madrid), 28660, Spain Phone: (34) 916 324 391 Fax: (34) 916 324 284	Chapters: 1*, 7*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Website: www.neotex.com Email: aha@neotex.com	
ISOVOLTA AG 2355 Wiener Neudorf Austria Phone: (43) 5 9595 9305 Fax: (43) 5 9595 79305 Website: www.isovolta.com	Chapters: 1*, 2*, 3*, 5*, 6*
Isovolta, Inc. 495 Territorial Street P.O. Box 287 Harrisburg, OR 97446 Phone: 541-995-6395 Fax: 541-995-8425 Website: www.isovolta-or.us	Chapters: 1*, 2*, 5*, 6*
Jamco Singapore Pte Ltd No. 8 Loyang Lane Singapore 508915 Phone: (65) 6417 0560 Fax: (65) 6542 0248 Website: www.sinjam.com.sg	Chapters: 1*, 2*, 3*, 5*, 6*, 7*, 23*
Krueger Testing and Consulting 14402 E. Goodwin Road Stanwood, WA 98292 Phone: 360-631-6167 Website: www.kruegerflam.com Email: keith@kruegerflam.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*
Lantal Textiles AG Dorfgrasse 5 P.O. Box 1330 4900 Langenthal, Switzerland Phone: (41) 62 916 71 60 Website: www.lantal.com Email: sales@lantal.ch	Chapters: 1*, 2*, 3*, 5*, 6*, 7* 18*
Lantal Textiles AG – Branch International Airport Abu Dhabi Airports Business City, Business Center, Executive Desk No. 18 United Arab Emirates Phone: (41) 62 916 71 60 Website: www.lantal.com Email: sales@lantal.ch	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*
L.E.F.A.E. (Laboratoire d'essais feu aéronautiques et életriques 9 Route du Dome 69630 Chaponost, France Phone: (33) 43 720 1917 Fax: (33) 43 720 1910	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 11*, 12*, 13*, 14*, 18*, 20*, 24*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Website: <a href="http://www.lab-lefae.com">www.lab-lefae.com</a> Email: <a href="mailto:a.gutierrez@lab-lefae.com">a.gutierrez@lab-lefae.com</a>	
Lufthansa Technik AG Central Laboratory Services Materials Flammability Test Center HAM TQ/M-C Weg beim Jaeger 193 22335 Hamburg, Germany Phone: (49) 40 5070 3792 URL: <a href="http://www.Lufthansa-technik.com/de/laboratory-services">www.Lufthansa-technik.com/de/laboratory-services</a> Email: <a href="mailto:laboratoryservices@lht.dlh.de">laboratoryservices@lht.dlh.de</a>	Chapters: 1*, 2*, 3*, 4*, 5*, 10* 18*
MTI Polyfab, a 3M Company 7381 Pacific Circle Mississauga, L5T 2A4, Ontario, Canada Phone: 905-564-9700 x7280 Fax: 905-564-8886 Website: <a href="http://www.mmm.com">www.mmm.com</a> Contact: Tatjana Stecenko Email: <a href="mailto:tstecenko@mmm.com">tstecenko@mmm.com</a>	Chapters: 1* 23*, 24*
Parker Hannifin Corporation-Stratoflex Products Division 2575 West 5 <sup>th</sup> Street Jacksonville, FL 32254 Phone: 904-389-3400 Fax: 904-384-5874	Chapter: 11 (not offered commercially)
Parker Hannifin Corporation-Stratoflex Products Division 220 Roberts Cutoff Road Fort Worth, TX 76114 Phone: 817-738-6543 Fax: 817-738-9920	Chapter: 11 (not offered commercially)
Resonate Testing Limited Unit 1, Bridge Technology Park Carnagat Lane Newry, BT35 8XF United Kingdom Phone: 44 (0) 2890 736 390 Website: <a href="http://www.resonatetesting.com">www.resonatetesting.com</a> Email: <a href="mailto:info@resonatetesting.com">info@resonatetesting.com</a>	Chapters: 1*, 2*, 3*, 4*, 7*, 8*, 11*, 12*, 24*, 25*
RESCOLL Technical Centre of Materials 8 Allee Geoffroy St, Hilaire 33615 Pessac, France Phone: (33) 547 74 69 00 Website: <a href="http://www.rescoll.fr">www.rescoll.fr</a> Email: <a href="mailto:rescoll@rescoll.com">rescoll@rescoll.com</a>	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 23*
Schneller Inc. Corporate Office 6019 Powdermill Road	Chapters: 1*, 5*, 6*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Kent, OH 44240 Phone: 330-676-7156 Fax: 330-673-6374 Website: www.schneller.com	
SGS Govmark Testing Services Inc. 96 Allen Boulevard, Suite D Farmingdale, NY 11735-5626 Phone: 631-293-8944 Fax: 631-293-8956 Website: www.govmark.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 12*, 14*, 15*, 18*, 19*, 23*, 24*, 25*
Sibir Technics LLC Flammability Test Laboratory Ob Town-2, Novosibirsk Region Russian Federation, 633102 Phone: +7 (383) 3599 013 Fax: +7 (383) 3599 048 Website: www.engineering.-ru.com Email: FTL@e-mro.aero	Chapters: 1*, 2*, 3*, 4*, 7*
Skandia, Inc. 5000 North Highway 251 Davis Junction, IL 61020 Phone: 815-393-4600 Fax: 815-393-3501 Website: www.skandia-inc.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 9*, 10*, 19*, 23*
Starr Aircraft Products, Inc. 5236 North Hwy 1417 Sherman, TX 75092 Phone: 903-893-1106 Fax: 903-893-0551 Website: www.starraircraft.com Email: bstrobl@starraircraft.com	Chapters: 1*, 7*
Tapis Corporation 1121 Roundtable Drive Dallas, TX 75247 Phone: 214-631-9700 Website: www.tapiscorp.com Email: info@tapiscorp.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*
Test Center of Civil Aviation Administration of China (CAAC) No. 17, South Section 2, 2 <sup>nd</sup> Ring Road Chengdu, P.R. China 610041 Phone: 0086-28-64456066, or 0086-28-64456022 Fax: 0086-28-64456010 Website: www.fccc.org.cn	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 7*, 8*, 10*, 12*, 15*, 18*, 19*, 23*, 24*
Testcorp 24662 Rhea Drive	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 23*

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LABORATORY/COMPANY NAME	TESTS CONDUCTED
Mission Viejo, CA 92691 Phone: 949-859-3569 Website: www.testcorp.net Email: jnauman@testcorp.net or mnauman@testcorp.net	
Triumph Composite Systems, Inc. 1514 S. Flint Road Spokane, WA 99219 Phone: 509-623-8100 Fax: 509-623-8099 Website: www.triumphgroup.com	Chapters: 1*, 2*, 23*
TTF Aerospace LLC 4620 B St NW Suite 101 Auburn, WA 98001 Phone: 253-736-6300 Fax: 253-250-6825 Website: www.ttfaero.com Email: sales@ttfaero.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*, 19*
University of Cincinnati, Fire Test Center 5997 Center Hill Avenue, Building A Cincinnati, OH 45224 Phone: 513-641-3041 / 513-556-5743 Fax: 513-556-5038 Email: firetest@uc.edu Website: http://cfri.uc.edu/ftc-index.html	Chapters: 11, 12
Vauth & Sohn GmbH Hembser Str. 1 33034 Brakel, Germany Phone: (49) 5272 3713-0 Fax (49) 5272 6671 Website: www.vauth-sohn.com	Chapters: 1*, 2*, 3*, 4*, 6*, 7*
Zodiac Aerospace – Sell GmbH Dr.-Siegfried-Strasse D-35745 Herborn Germany Phone: (49) 2772 707 802 Fax: (49) 2772 707 133 Website: www.-sell-interiors.com	Chapters: 1*, 2*, 3*, 4*, 5*, 6*, 10*

## AIRCRAFT MATERIALS FIRE TEST HANDBOOK CHAPTERS

Chapter 1: Vertical Bunsen Burner Test for Cabin and Cargo Compartment Materials

Chapter 2: 45-Degree Bunsen Burner Test for Cargo Compartment Liners and Waste Stowage Compartment Materials

Chapter 3: Horizontal Bunsen Burner Test for Cabin, Cargo Compartment, and Miscellaneous Materials

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- Chapter 4: 60-Degree Bunsen Burner Test for Electric Wire
- Chapter 5: Heat Release Rate Test for Cabin Materials
- Chapter 6: Smoke Test for Cabin Materials
- Chapter 7: Oil Burner Test for Seat Cushions
- Chapter 8: Oil Burner Test for Cargo Liners
- Chapter 9: Radiant Heat Testing of Evacuation Slides, Ramps, and Rafts
- Chapter 10: Fire Containment Test of Waste Stowage Compartments
- Chapter 11: Powerplant Hose Assemblies Test
- Chapter 12: Powerplant Fire Penetration Test
- Chapter 13: Test for Electrical Connectors Used in Firewalls
- Chapter 14: Test for Electrical Wire Used in Designated Fire Zones
- Chapter 15: Two Gallon per Hour Oil Burner Certification Testing for Repaired Cargo Compartment Liners
- Chapter 18: Recommended Procedure for the 4-Ply Horizontal Flammability Test For Aircraft Blankets
- Chapter 19: Smoke Test for Insulated Aircraft Wire
- Chapter 20: Dry Arc Tracking Test Procedure
- Chapter 21: Dry Arc-Propagation Resistance
- Chapter 22: Cotton Swab Test for Thermal Acoustic Insulation Blankets
- Chapter 23: Test Method To Determine the Flammability and Flame Propagation Characteristics of Thermal/Acoustic Insulation Materials
- Chapter 24: Test Method To Determine the Burnthrough Resistance of Thermal/Acoustic Insulation Materials
- Chapter 25: Oil Burner Flammability Test for Magnesium Alloy Seat Structure

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