

Automotive Manufacturers Equipment Compliance Agency, Inc.	Document No.	SC02
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Brake Friction Material Certification Process

Introduction

This document is divided into two complementary sections because California and ISO have different process requirements and it was our intention that each regulation is answered in it's entirety.

Section I: California Requirements

Section II: ISO

Section I California Requirements

This document is the ISO-17067 Certification Scheme for materials to comply with the ISO-17065 certification process required by California Brake Friction Material Requirements, Division 4.5, California Code of Regulations, Title 22 Chapter 35

1) General Information

AMECA is the Testing Certification Agency of manufacturers Declaration of Self-Certification statements.

This scheme will be for the publication and documentation of manufacturers' self-certification documentation to Division 4.5, California Code Of Regulations, Title 22, Chapter 30. California Brake Friction Material Requirements (ISO-17067 S6.3.1a)

AMECA will not be issuing any certification marks. Manufacturers use "mark of proof" per SAE J866:2012.

AMECA is the scheme owner. The AMECA SC02 Environmental Certification Scheme for Brake Friction Material operates under the AMECA SC01 Certification System. (ISO 17067 S6.3 and 6.3.2)

AMECA will be making Decisions on assigning the environmental compliance level.

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2) Registration Process

Companies requesting registration will need to supply the following:

- a. A test report according to California Code of Regulations, title 22, section 66387.6, and SAE J2975:DEC2013 from Link Engineering
- b. A completed AMECA Form F22A Application and Self-Certification Form for California Friction Registration

3) Requirements for Chemical Analysis Testing Method

- a. AMECA will only accept test and sampling results according to California Code of Regulations, Title 22, Section 66387.6 and SAE J2975:DEC2013 from Link Engineering Company.
 - i. Link Engineering will maintain a current ISO-17025 certification for California Code of Regulations, Title 22, Section 66387.5 Subsection (a), and SAE J2975:DEC2013.
 - ii. AMECA will review the ISO certification for Link Engineering yearly.

4) Quality Assurance Procedures For Checking Testing Results And Rejecting Testing Results

- a. AMECA will verify that the chemical sampling data and test report from Link Engineering meets the requirements of California Code of Regulations, Title 22, Section 66387.6 Subsection (a) and SAE J2975:DEC2013.
- b. AMECA will only accept reports from a Link Engineering Company email address.
 - i. Testing Reports from 3rd party will only be accepted if the PDF is secured by a Link Engineering Company signature.
- c. AMECA Technical Personnel print current copy of California Code of Regulations, Title 22, Section 66387.6 Subsection (a) and SAE J2975:DEC2013 to review with test reports.
 - i. Technical Personnel will verify that both the sampling and results comply with California Code of Regulations, Title 22, Section 66387.6, Subsection (a) and SAE J2975:DEC2013 and that the testing results also support the environmental compliance level the manufacturer requests per the requirements listed in 22CCR section 66387.8.

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- ii. Non-compliant results will be verified with the laboratory.
- iii. If non-compliant results are verified, the manufacturer will be emailed of the results within 24 hours.
- iv. In the event of a laboratory error, the laboratory shall inform the AMECA within four (4) calendar days of the determination that the test results were laboratory error. The AMECA will withdraw registration of specific unique identification codes until such time as new testing without laboratory error is properly provided to the AMECA which warrants the unique identification codes being properly registered.
- v. AMECA will assign the environmental compliance level in accordance with California Code of Regulations, title 22, section 66387.7, subsection (c)(3)

5) Recertification Period

Manufacturers will be required to submit new test data for materials every three years. Brake friction materials containing more than five percent copper, but that meet the requirements for the constituents listed in California Health and Safety Code section 25250.51, subdivisions (a)(1) through (a)(5), do not need to be submitted for new testing to be recertified prior to 2021;

The expiration date is listed on the document “*AMECA List of Materials Certified to California Brake Friction Material Requirements*” available at www.ameca.org/Brake-Enviromental-Certification.

6) Procedure Used To Ensure Every Self-Certified Brake Friction Material Formulation Has A Unique Identification Code

- a. AMECA technical personnel will check the file AMECA\Other\EdgebyCode to verify that the company code listing belongs to the applicant.
- b. AMECA technical personnel will verify that the requested edge code are not currently used by other companies in the file AMECA\Publications\Handbook\latest date\Friction(latest date).xls

7) Self-Certification Document

AMECA will issue a Self-Certification of compliance documentation to the brake friction material manufacturer for its formulation(s) and unique identification code(s) that comply with Health and Safety Code sections 25250.51, 25250.52, or 25250.53.

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The self-certification of compliance document will consist of the following information:

- Manufacturers Declaration of Self-Certification
- the Assigned the environmental compliance level in accordance with California Code of Regulations, title 22, section 66387.7, subsection (c)(3);

All AMECA documents will be available indefinitely under the website www.ameca.org/Brake-Environmental-Certification

8) Procedure For Publishing Self-Certification Information On Brake Friction Materials On AMECA Website.

AMECA will publish on the Internet the environmental compliance level and unique identification code(s) marked on the brake friction material that follows the process outlined in California Code of Regulations, title 22, section 66387.7, subsection (c), with or without the two digits that indicate the year the brake friction material is produced in the document “*AMECA List of Materials Certified to California Brake Friction Material Requirements.*”

- i. The “*AMECA List of Materials Certified to California Brake Friction Material Requirements*” will be available at www.ameca.org/Brake-Environmental-Certification
- ii. AMECA Website will be updated at least once a month on or about the 15th of the month. Publication will include all materials submitted in the previous month.

9) AMECA Web Listing Published information.

For California the following information will be published per California’s requirements.

- Registered unique identification code
- Assigned environmental compliance level for each registered unique identification code
- May or may not have Year of Manufacturer
- 3 year Expiration Date based on the test report date
- Self-Certification documentation number
- a URL to the self-certification documentation PDF.

The self-certification documentation will include the following:

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- Unique ID Number
- The contact person's name; and
- The contact person's job title; and
- The contact person's e-mail address; and
- The business's name; and
- The business's address; and
- The business's phone number or the contact person's phone number.
- Friction material identification codes
- Environmental compliance level

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Section II ISO Requirements

4. Publically Available Information (ISO 17065 Section 4)

- 4.1.1. The scheme and Application Form documents will be published on AMECA's website. Quality Manual, other forms, policy documents are available by request to program participants.
- 4.1.2. There will be No Charge for companies who already have an AMECA Notice of Equipment Compliance for SAE J661/VESC V3. AMECA is supported by existing programs.
- 4.1.3. Companies without a valid existing AMECA Notice of Equipment Compliance for SAE J661/VESC V3 will be charged \$50 per material, application form regardless of the number of edge codes.

5. Product Certification Scheme (ISO 17067 S5, 17067 S6.5.1c)

- 5.1. Selection: Products may selected from regular or initial production run prior to release.
- 5.2. Surveillance: There is no surveillance.
- 5.3. Decision on Certification: AMECA will analyze the testing results to verify that they are in compliance with California requirements and the manufacturers self-certification statements are correct.
- 5.4. Certification Marking: Due to the mark requirements in ISO-17067 S5 AMECA will not be issuing a discrete logo or graphics as marked proof of compliance on the pad and packaging logo. Manufacturers use "mark of proof" per SAE J866:2012.

6. Operation of AMECA SC02 AMECA Standard Operating Procedures for Friction Material Certification Scheme (ISO-17067 S6)

- 6.1. This section details how AMECA will operate the certification scheme
- 6.1.1. AMECA will be operating a Type 1a certification system.

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- 6.2.** AMECA Will operate a product certification system. The system will consist of three parts.
- 1) SC2 Standard Operating Procedures for Material Certification for California
 - 2) SC3 AMECA Automotive Lighting Product Certification Scheme
 - 3) SC04 AMECA Automotive Glazing Product Certification Scheme
 - 4) SC05 AMECA Wheel and Suspension Components Product Certification Scheme
- 6.3.** Details on AMECA and the operation of the scheme
- 6.3.1.** AMECA is the scheme owner and the scheme was created for the sole use of AMECA's client companies for California regulations
- 6.3.2.** The SC02 AMECA Standard Operating Procedures for Friction Material Certification scheme will operate in AMECA's Product Certification System.
- 6.3.3.** AMECA is a Maryland company with an office in the District of Columbia.
- 6.3.4.** AMECA takes full responsibility of all certification decisions based on approved laboratory tests.
- 6.3.5.** Maintenance and guidance of the AMECA Product Certification Program are found in the AMECA Quality Control Manual.
- 6.3.6.** This scheme will operate under the procedures contained in this document and referenced sections of the AMECA Quality Control Manual.
- 6.3.7.** The scheme's documentation is contained in it's in this document and the AMECA Quality Control Manual to which it refers to.
- 6.3.8.** This document has been developed by engineers trained in both automotive testing, manufacturing and ISO certification processes.
- 6.3.9.** Confidentiality is covered by AMECA document PY-02 Confidentially Policy. (PY-02 is available by request to program participants)
- 6.3.10.** AMECA will minimize risk by only accepting reports from Link Engineering.
- 6.3.11.** AMECA has financial backing and significant liability insurance.
- 6.3.12.** AMECA has been in operation for over 20 years. The ISO certification will not will not be an additional expense. We will only expand personnel after a well demonstrated need.
- 6.4. AMECA Product Certification Scheme Development**

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- 6.4.1.** AMECA's Product Certification Scheme was developed to comply with the requirements of California Department of Toxic Substances Control.
- 6.4.2.** AMECA makes the following assumptions: are that manufacturers want to make compliant products, that consumers care and that oversight is absolutely necessary. AMECA may be introduced to significant liability issues which will need to be carefully managed by signed agreements.
- 6.4.3.** AMECA has the support of testing laboratories and certain friction manufacturers.
- 6.4.4.** Scheme Principals
- a. AMECA is the owner of this certification scheme
 - b. AMECA is the Testing Certification Agency of manufacturers self-certification statements.
 - c. The funding of the program will come from existing Notice of Equipment Compliance document fees and manufacturer/laboratory inspection fees
- 6.4.5.** Laboratories are reevaluated approximately every two years. Scheme is reviewed every year with reviewing of standards in the first quarter. Any standards changes may necessitate changes in the scheme.
- 6.5. Scheme Content (17067 S6.5)**
- a. General Information This scheme covers automotive friction material products
 - b. Products are evaluated by the following Normative References:
 - 6.5.1.b.1.** The chemical analysis data from an accredited laboratory that meets the requirements of California Code of Regulations, title 22, section 66387.5.
 - 6.5.1.b.2.** Chemical analysis for each brake friction material formulation was conducted using the testing methodology in Department of Toxic Substances Control Page 6 of 17 Revised: January 2016 accordance with California Code of Regulations, title 22, section 66387.6, subsection (a) and SAE J2975:DEC2013
 - c. This is a Type 1a Certification system.
 - 6.5.1.c.1.** Initial Product selection will be at the manufacturer

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6.5.1.c.2. AMECA will issue a Manufacturers Declaration of Self-Certification

- d. The usage and rights of manufacturers for the AMECA Logo is found in the AMECA Quality Manual.
- e. AMECA acts as a Testing Certification Agency or registrar.
- f. AMECA has no Mutual Recognition Agreements
- g. Methods and Procedures for this quality system are in the AMECA Quality Manual and Procedure documents.
- h. Manufacturer Obligations and Required Information

6.5.1.h.1. Manufacturers must include AMECA Form F22A Application and Self-Certification Form for California Friction Registration for edge code(s) they wish to register

- i. AMECA will issue a Manufacturers Declaration of Self-Certification
- j. AMECA will NOT be issuing any certification marks. Manufacturers use "mark of proof" per SAE J866:2012.
- k. There is no mark associated with this certification plan.
- l. Resource requirements are detailed in the AMECA Quality Manual and subreferenced policy, procedure and form documents
- m. Results will be reported by email and publishing on the AMECA website. Manufacturers will receive certification document (Appendix A)
- n. Non-conformities are handled according to AMECA Quality Policy QP10, Certificate Issue, Suspension and Withdrawal
- o. Surveillance: There is no surveillance.
- p. The scheme, quality manual and Policy documents will be on the AMECA website.
- q. All certified products will be updated to the www.ameca.org website
- r. AMECA is the Testing Certification Agency or registrar. Manufacturers self-certify. AMECA is the scheme owner
- s. Certification General Conditions are contained in document AMECA Quality Policy QP10, Certificate Issue, Suspension and Withdrawal
- t. Complaints are verified using process in AMECA Quality Policy QP07, Complaints and Appeals

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- u. If clients want to use the AMECA Logo clients may refer to the licensing as per form AMECA Form F28 Certification and Licensing Agreement.
 - v. Records are held in accordance to AMECA Quality Policy QP02, Control of Records
- 6.5.2. Sampling:** Sampling will be conducted according to California Code of Regulations, title 22, section 66387.6, subsection (a) and SAE J2975:DEC2013.
- 6.5.3. Prior Testing:** Tests, up to the three year limit, performed by Link Engineering is acceptable for certification.
- 6.5.4. Outsourcing:** Link Engineering may outsource testing if witnessed by trained personnel. Testing laboratories are responsible for all testing and results done by outsourced facilities. Prior approval of outsourced test and facility is required by AMECA.
- 6.5.5. Complaints and Appeals:** AMECA will follow Quality Policy QP07, Complaints and Appeals for handling those matters.
- 6.5.6. Licensing and Control of Use of AMECA Name and “AMECA Certified” Logo:** AMECA’s licensing policy is in document F28 AMECA Certification and Licensing Agreement
- 6.5.7. Surveillance:** There is no surveillance by AMECA.
- 6.5.8. Non-Conforming Products:** Information about non-conforming products is contained AMECA Quality Manual Section 7.11
- 6.5.9. Reporting Requirements:** This scheme exists to satisfy the reporting requirements of the California Department of Toxic Substances Control
- 6.5.10. Subcontracting Operations:** AMECA Form F11 Contractor Agreement covers the subcontracting agreement for program evaluation.
- 6.5.11. Marketing:** Companies are allowed to use the AMECA Certified Mark as per licensing agreement AMECA Form F28 Certification and Licensing Agreement.
- 6.5.12. Fraudulent Claim of Certification:** Any use of the AMECA Certified Mark or AMECA logo by parties not under the agreement is a violation of U.S. and foreign trademark laws. Parties will be first notified by email and certified letter of the infraction. Companies will be given 30 days to respond and/or remove all references to AMECA and the AMECA Certification process.
- 6.5.13.** AMECA will initiate legal action as appropriate to Companies who do not comply or respond to our request within the time period will. Further information is in AMECA Form F28 AMECA Certification and Licensing Agreement.

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6.5.14. Maintenance and Improvement of the Scheme

6.5.15. Review of Scheme Operation. During AMECA's impartiality meeting customer feedback will be summarized to the committee. AMECA will also openly solicit input from stake holders and industries regarding any potential expansion of certification activities. AMECA will also benchmark, as much as possible, existing certification systems in the same areas.

6.5.16. Changes to Specified Requirements. AMECA monitors the daily federal register for any standards changes. AMECA is also on several SAE Committees for which we offer certification. Additionally, the first quarter of each year AMECA will check for updates as per Quality Manual 4.2.4.

6.5.17. Other Changes. It is intended that the AMECA Certification scheme be a "Living Document" and will change over time as standards, needs and the market changes. Changes will only be done after agreement by AMECA management, test labs and proposed industry customers.

6.5.18. Loss of Accreditation. In the event that AMECA loses it's accreditation as a Certification Body AMECA will inform all customers via email or regular mail within 7 days. Manufacturers must cease usage of AMECA logo within 30 days.

6.5.19. Scheme Documentation. All necessary information for the SC02 AMECA Standard Operating Procedures for Friction Material Certification Scheme is in this document and subreferenced AMECA quality documents.

Subreferenced documents available by request if not on AMECA website:

- AMECA Quality Manual
- AMECA Quality Policy QP02, Control of Records
- AMECA Quality Policy QP07, Complaints and Appeals
- AMECA Quality Policy QP10, Certificate Issue, Suspension and Withdrawal
- SC01 AMECA Certification System
- AMECA Form F11 Contractor Agreement
- AMECA Form F22A Application and Self-Certification Form for California Friction Registration
- AMECA Form F28 Certification and Licensing Agreement