

Environmental Choice^M Program

CERTIFICATION CRITERIA DOCUMENT

CCD-056



Product: Tires: Energy Efficient

Preamble

Environment Canada's Environmental Choice^M Program is pleased to publish the following national guideline on *energy efficient tires*.

The Environmental Choice Program is designed to support a continuing effort to improve and/or maintain environmental quality by reducing energy and materials consumption and by minimizing the impacts of pollution generated by the production, use and disposal of goods and services available to Canadians.

Environmental benefits may accrue from either the use of tires on passenger cars and light trucks which feature lower rolling resistance, thus improving fuel efficiency of these vehicles.

Based on a review of currently available life cycle information, the product category requirements will produce an environmental benefit through **reduced use of non-renewable resources**.

Life cycle review is an ongoing process. As information and technology change, the product category requirements will be reviewed and possibly amended.

The Minister of the Environment anticipates that manufacturers or importers of *Energy Efficient Tires* which conform to this guideline will apply to the Environmental Choice Program for verification and subsequent authority to label the qualifying products with the Environmental Choice EcoLogo^M.

Notice

Any reference to a standard means to the latest edition of that standard.

The Environmental Choice Program reserves the right to accept equivalent test data for the test methods specified in this guideline.

Interpretation

1. In the following guideline:

"fuel savings" means the percentage decrease in fuel consumption when comparing test data. The testing should have been performed on the same vehicle under the same operational and testing conditions with the only difference being the tires on the vehicle.

"large diameter tires" means those passenger tires with a rim diameter greater than 13 inches.

"rolling resistance" means the scalar sum of all contact forces tangent to the test surface and parallel to the wheel plane of the free-rolling tire. It is how much effort it takes to roll a tire with a given load and air pressure, and is normally expressed in kilograms of resistance per tonne of load. Rolling resistance should be measured using the standard *SAE J2452: Stepwise Coastdown Methodology for Measuring Tire Rolling Resistance*,

"SAE" means the Society of Automotive Engineers.

"Small diameter tires" means those passenger tires with a rim diameter less than or equal to 13 inches.

General Requirements

2. To be authorized to carry the EcoLogo *energy efficient tires* must:
 - (a) meet or exceed all applicable governmental and industrial safety and performance standards;
 - (b) be manufactured and transported in such a manner that all steps of the process, including the disposal of waste products arising therefrom, will meet the requirements of all applicable governmental acts, by laws and regulations including, for facilities located in Canada, the *Fisheries Act* and the *Canadian Environmental Protection Act* (CEPA); and
 - (c) be offered with a customer warranty which is consistent in length and coverage with current industry practice.

Product Specific Requirements

3. To be authorized to carry the EcoLogo the *Energy Efficient Tires* must:
 - (a) meet or exceed the following safety standards:
 - (i) Canada Motor Vehicle Safety Standards 109 and 119,
 - (ii) U.S. Federal Motor Vehicle Safety Standards 109 and 119, and
 - (iii) U.S. Uniform Tire Quality Grading Standards of the 49 CFR 575.104;
- 4.1 To be authorized to carry the EcoLogo, the energy efficient passenger car tires must achieve the following rolling resistances:

Tire Diameter	Average Rolling Resistance (kg/tonne)	Expected Fuel Savings
small	≤ 11.0	5% - 7%
large	≤ 8.5	5% - 7%

- 4.2 To be authorized to carry the EcoLogo, the energy efficient truck tires must achieve the following rolling resistances:

Highway Axle Position	Average Rolling Resistance (kg/tonne)	Expected Fuel Savings
Steer/All	≤ 5.4	8.1% - 10.8%
Traction/Drive	≤ 8.5	8.2% - 10.9%
Trailer	≤ 4.6	7.5% - 10.0%

Verification



5. To verify a claim that a product meets the criteria listed in the guideline, the Environmental Choice Program will require access, as is its normal practice, to relevant quality control and production records and the right of access to production facilities on an announced basis.
6. Compliance with section 3(b) shall be attested to by a signed statement of the Chief Executive Officer or the equivalent officer of the manufacturer. The Environmental Choice Program shall be advised in writing immediately by the licensee of any noncompliance which may occur during the term of the license. On the occurrence of any noncompliance, the license may be suspended or terminated as stipulated in the license agreement. In the event of a dispute related to the suspension or termination of the license, the license agreement provides for arbitration.

Conditions for EcoLogo Use

7. The EcoLogo may appear on wholesale or retail packaging, or on the product itself, provided that the product meets the requirements in this guideline.
8. It is recommended that a criteria statement appear with the EcoLogo whenever the EcoLogo is used in association with the **energy efficient tires**. The intent of this statement is to provide clarification as to why the product was certified and to indicate constraints to which the certification is limited. This is to ensure no ambiguity over, or misrepresentation of, the reason(s) for certification.

ECP suggested criteria statement wording for this product type is "Energy Efficient Tires". The licensee may propose other wording for the criteria statement (specifically, manufacturers utilizing higher percentages of ethanol content may indicate their values in the criterial statement), but any such proposed wording must be approved by the Environmental Choice Program.

9. All licensees and authorized users must comply with the Environmental Choice Program's *Guide to Proper Use of the EcoLogo[®]* regarding the format and usage of the EcoLogo.
10. Any accompanying advertising must conform with the relevant requirements stipulated in this guideline, the license agreement and the Environmental Choice Program's *Guide to Proper Use of the EcoLogo[®]*.

	<p>For more information about the EcoLogo[™] Program, please direct your inquiry to: The EcoLogo[™] Program 171 Nepean Street, Suite 400 Ottawa, ON, K2P 0B4 Phone: 1.800.478.0399 www.ecologo.org</p>	
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