

**CRITERIA FOR AWARDING THE ENERGY SAVING
PROCEL SEAL TO WASHING CLOTHES MACHINES**

(DOCUMENT COMPLEMENTARY TO THE REGULATION FOR AWARDING
THE ENERGY SAVING PROCEL SEAL)

(Review – I)

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1 Introduction

This document is complementary to the "Regulation for Awarding the Energy Saving Procel Seal", which may be accessed on the Procel website (www.procelinfo.com.br). Its goal is to define the criteria that shall be met by **washing clothes machines** in order to earn the Energy Saving Procel Seal.

2 Evaluation of product characteristics

The mechanism for evaluating the characteristics of washing clothes machines covered by this regulation is the labeling, through the Brazilian Labeling Program – PBE, coordinated by the National Institute of Metrology, Quality, and Technology – Inmetro, in partnership with Eletrobras Procel.

Therefore, the product applying for the Procel Seal must be subjected to the stages for granting the use of the National Energy Conservation Label - ENCE¹, described in the current document "Conformity Evaluation Requirements (RAC) for Washing Clothes Machines" of the Brazilian Labeling Program - PBE, published on the Inmetro website (www.inmetro.gov.br).

The reference labs to perform the tests, the respective sampling, the testing and the allowed tolerances for the results are the ones detailed in the document cited in the previous paragraph.

3 Criteria for awarding the Procel Seal

3.1 Minimum requirements

The manufacturer/importer who intends to make use of the Procel Seal on an equipment model of their manufacturing line (or imported model) shall prove, through the tests prescribed in the current document "RAC for Washing Clothes

¹ ENCE – Its goal is to inform the energy consumption and/or energy efficiency of equipment. Its use is subject to the authorization by Inmetro.

Machines”, that the referred model meets, besides the safety requirements, the performance levels required by Eletrobras Procel, according to the table below:

| Category | Power Consumption | Washing Efficiency | Water Consumption [liters/cycle/kg] | Spin Efficiency |
|---|---|--------------------|-------------------------------------|---|
| Automatic Clothes Washing Machine | The model shall obtain class “A” on the ENCE. | ≥ 0.88 | ≤ 15.10 | The model shall obtain class “A” on the ENCE. |
| Semi-Automatic Clothes Washing Machine | The model shall obtain class “A” on the ENCE. | ≥ 0.72 | ≤ 27.4 | ***** |

The model will be evaluated according to the tests stipulated in the Brazilian Labeling Program – PBE for washing clothes machines, in reference labs indicated by Eletrobras Procel.

The model with the same constructive characteristics and the same performance as another one which already has the authorization to use the Procel Seal will be exempted from performing the tests. Nevertheless, it may be subjected to evaluation during the process of monitoring products with the Seal.

3.2 Results confirmation

After finishing the tests, the manufacturer/ importer shall send to Eletrobras Procel the Technical Specifications Worksheet (PET) and the Test Report of the model, or shall authorize the reference lab to do so. The submission may be made by email.

4 Re-evaluation of product characteristics

Each year Eletrobras Procel will re-evaluate the characteristics of the washing clothes machines with the Procel Seal, in order to verify whether their performance characteristics remain valid for the maintenance of the authorized use of the Seal. This verification will be performed through the Production Monitoring stage, proposed in the current "RAC for Washing Clothes Machines", of the Brazilian Labeling Program - PBE, published on the Inmetro website (www.inmetro.gov.br).