International Standard

ISO 25333

# Road sweepers — Environmental efficiency — Requirements on the test procedure for energy consumption

*Balayeuses — Efficacité environnementale — Exigences relatives à la méthode d'essai pour la mesure de la consommation d'énergie*

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# Introduction

As a result of the development of new drive unit concepts for sweepers, as well as the provisions from procurement guidelines from different regions, there is a demand for universal processes and provisions for determining the environmental effects of sweepers, with the objective of achieving a uniform evaluation of the environmental efficiency.

The environmental effects in the utilization phase for sweepers are essentially determined by their energy consumption from which the relevant $CO_2$ emissions result.

In order to define appropriate characteristic numbers for the environmental effect of sweepers, it is necessary to differentiate between sweeping mode and general trips, for instance, to and from the work site.

The objective is to be able to issue an environmental efficiency ID for various vehicle models.

In the future, manufacturers and users should be able to decide whether the consumption measurement is carried out as a simulation or within the scope of measurement runs.

EXAMPLE In Europe, the Vehicle Energy Consumption calculation tool (VECTO) is used.

NOTE Table 1 contains, in addition to the statutory units, the unit $Nm^3$ (normal cubic metres). This unit is only mentioned as an aid in official and commercial transactions (e.g. import/export) with nations that use this unit. 1 $Nm^3$ of gas is the amount of a gas in a volume of 1 $m^3$ at 1,013 25 bar and 0 °C. The conversion rate with $m^3$ is 1 $Nm^3$ = 1 $m^3$.

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