

The Method for Calculating the Steel Can Recycling Rate

Following is the method for calculating the steel can recycling rate.

Amount of Steel Can Consumption

Calculation Method

- The weight of domestically produced steel cans shipped, weight of steel cans used for import/export of canned food and weight of steel cans imported as empty cans between January and December of 2009 were monitored based on the Ministry of Economy, Trade and Industry Statistics and "Japan Exports and Imports" from the Ministry of Finance, as well as the surveyed weight of steel cans.

Calculation Results (① - ② + ③ + ④) : 699,354 tons

① Weight of domestically produced steel cans shipped : 594,935 tons

- Figures in tons from the Ministry of Economy, Trade and Industry Statistics were used for Beverage cans, food cans and general cans.
- The weight of 18-liter cans is calculated by multiplying figures in tons from the Ministry of Economy, Trade and Industry Statistics by the (food) ratio announced by the National Federation of 18 Liter Cans Manufacturers Corporative Union.

② The weight of steel cans used for exporting canned food : 1,551 tons

- Calculated based on "Japan Exports and Imports" from the Ministry of Finance.

③ The weight of steel cans used for importing canned food : 100,865 tons

- Calculated based on "Japan Exports and Imports" from the Ministry of Finance. We assumed that the main types of cans used for manufacturing in Japan were used for food, tomatoes/vegetables and pet foods imported in "air-tight containers" (including not only cans but also other containers), and we estimated the number of cans and calculated the weight of containers by multiplying by the unit can weight.
- Of 100,865 tons, exported pet food cans: 17,225 tons (*Calculated based on the data from the Pet Food Manufacturers Association, Japan)

④ Weight of steel cans imported as empty cans : 5,105 tons

- Figures in tons from "Japan Exports and Imports" from the Ministry of Finance.

Amount of steel can scrap collection

Calculation Method

- We assumed that 3 months elapses between the sale of steel can goods and the collection of the cans for recycling and we sent a survey form regarding usage amounts of scrap steel cans during the period from April 2009 to March 2010 to a total of 83 manufacturers including furnace manufacturers, blast furnace manufacturers, Pellet manufacturers, and casting manufacturers.
- In addition, we estimated, according to the survey data, the amount of steel cans for steelmaking raw materials recycled under the standard other than C Shredder through shredding process of iron scrap dealers across the country, and incorporated it into the subject calculation.
- We subtracted the weight of aluminum caps for beverage cans included in the scrap steel cans and foreign substances such as moisture from this total value.

Calculation Results (① - ② - ③) : 623,108 tons

① Weight of scrap steel cans used : 658,082 tons

② Weight of foreign substances such as aerosol cans, iron scrap included in ① above : 6,801 tons

③ Weight of aluminum lids for beverage containers included in ① above : 28,173 tons

The Steel Can Recycling Rate in FY2009

$$\frac{\text{Amount of steel can scrap collection (623,108 tons)}}{\text{Amount of Steel Can Consumption (699,354 tons)}} = 89.1\%$$