

# 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 2012 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) : 664,049 ton

- ① **Weight of domestically produced steel cans shipped : 544,635 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 : 1,408 tons**
  - Calculated based on "Japan Exports and Imports" from the Ministry of Finance.
- ③ **The weight of steel cans used for importing canned food : 113,471 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.
  - Exported pet food cans: 17,402 tons (\*Calculated based on the data from the Pet Food Manufacturers Association, Japan)
- ④ **Weight of steel cans imported as empty cans : 7,351 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 2012 to March 2013 to a total of 80 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 iron scraps except steel can from this total value.

### Calculation Results (① - ② - ③) : 602,944 ton

- ① Weight of scrap steel cans used : 639,229 tons
- ② Weight of foreign substances such as aerosol cans, iron scrap included in ① above : 7,964 tons
- ③ Weight of aluminum lids for beverage containers included in ① above : 28,321 tons

### The Steel Can Recycling Rate in FY2012

$$\frac{\text{Amount of steel can scrap collection (602,944 tons)}}{\text{Amount of Steel Can Consumption (664,049 tons)}} = 90.8\%$$