

## **Carbon Footprint Project of the Product**

At present, global warming is affecting human life and other life forms and the environment, which are intensifying due to the increasing amount of greenhouse gases. This is caused from human activities such as increasing use of natural resources, burning of fossil fuel, the use of electricity and raw materials in the production process of various industries, etc., which affects all life forms directly and indirectly. The consumers are aware of the effects of global warming. As a result, manufacturers begin to pay attention to this problem and to show their concern on the environmental impact of their products, as to overcome trade barriers and develop better production processes.

Therefore, The Carbon Footprint of the product is measured according to the amount of greenhouse gas emissions from each product unit. Throughout the life cycle of the product, starting from the acquisition of raw materials, transportation, production, consumer consumption and product handling after use by measuring in the form of carbon dioxide equivalent. This is a tool that helps manufacturers know how much greenhouse gas emissions have been released throughout their product life cycle. The Manufacturers can also set measures to reduce greenhouse gas emissions from their production activities. As a result, the overall greenhouse gas emissions have been decreased.

Aeroflex Co., Ltd. recognizes the importance of showing responsibility to stakeholders by disclosing the environmental impact of the products. The company has the concept of carbon footprint project for products to show the greenhouse gas emissions of Aeroflex insulation products in both tube and sheet insulation with a total of 9 products. This also serves as the guideline for obtaining Carbon Footprint Reduction and Environmental Product Declaration. The Carbon Footprint for Product label is the environmental label that identifies the greenhouse gas emissions of a given product throughout the lifetime of the product. The Carbon Footprint for Product concept starts from raw material procurement to production, until distribution and decomposition. The consumers are made aware and acknowledged the manufacturer's concern on global warming. The consumers can also be motivated to have awareness in selecting and buying the products that have less greenhouse gas emissions in production process by comparing within the same product category with different brands.