

Environment-Conscious Products

The Nitto Denko Group develops environment-conscious products for customers. We conduct environmental impact assessments on both new and existing products to ensure their environmental friendliness and safety in addition to their easy and convenient use. As part of this process, we participate in research in EEBE¹ and examine the standardization of this evaluation method.

Polarization Conversion Films (PCF) for LCDs

By attaching PCFs to LCD TVs, PCs, cellular phones, and car navigation systems, the brightness of the screen is improved 50–60%, which leads to a reduced consumption of electricity.



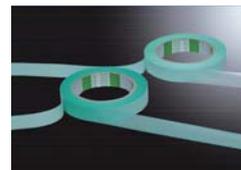
Double-Coated Adhesive Tapes

These double-coated tapes are used as construction materials. Because they are used mainly indoors, they do not contain volatile organic compounds (VOC), which cause sick building syndrome. Also, because measures against static electricity were successfully implemented, they can be used for many purposes.



Water-Soluble Adhesive Tape

This tape is used for auto-splicing in the paper manufacturing and printing processes. Sheets spliced together using this tape can be recycled as pulp material without removing the spliced parts because the tape is water-soluble.



Reverse Osmosis Membranes Modules for Seawater Desalination

These polymer membranes convert seawater to freshwater and contribute to solving water shortage issues around the world. The membranes are used in various regions in the world, including the United Arab Emirates (Fujairah) and Spain (Carboneras), where water shortage has become a social problem.



Non-Halogen, Solvent-Free Wire Harness Tape

This non-halogen, solvent-free adhesive tape contains no harmful substances. It is designed to bind wires used in automobiles together and meet the environmental needs of automotive industry all around the world.



Insect Removal System

This system uses the sex pheromone and behavioral patterns of insects to repel harmful pests. The system does not use insecticides and is effective in ridding specific insects. This environment-friendly system is used on farms and trees that line streets in urban areas.



Environmental Impact Assessment of Products

Plans to Formulate Guidelines on Product Development Based on Life Cycle Assessments

The Nitto Denko Group conducts environmental impact assessments on new and existing products based on its environmental management system.

Environmental impact assessments on existing products are conducted once a year by the department in charge of development. Under this assessment system, we focus on improving products that were assessed as having a large environmental impact as an annual objective. For new products, we determine whether they meet predefined quality requirements and conduct environmental impact assessments as part of their design review. Products that are assessed as having a larger environment impact than previous models are not allowed to be manufactured.

In fiscal 2006, we plan to formulate guidelines on environment-conscious products based on the life cycle assessment (LCA), which is used in analyzing and assessing the environmental impact of a product throughout its life cycle, from resource exploitation to disposal as waste. In forming the guidelines, the Environmental Technology Department will take the initiative in conducting relevant research and surveys.

comment



Dr. Bart Forier
 Manager, R&D Dept. Nitto Europe
Clear Focus on Environmental Regulations

I am the development manager of SBU tape at Nitto Europe. Currently, we are working on different projects where we have a clear focus on environmental regulations because, especially here in Europe, regulations are very severe. We acknowledge the need for tackling recycling issues in the automotive and electrical & electronic industries. We want to show our customers, through new product developments, the initiative that Nitto Denko has taken to contribute to making the world a better place to live. By doing this, we aim for our customers' commitment to Nitto Denko.



Dr. Walter Eevers
 General Manager, New Business Group/R&D Nitto Europe
Contributing to Society through the Development of New Products That Have Less Environmental Impact

In my responsibility for the R&D activities of Nitto Denko in Europe, I am dedicated to investigating how Nitto Denko can contribute to a cleaner and healthier society by developing new products and processes that fit this principle of sustainable development. Developing materials that lead to the easy recycling of components, developing processes that consume less energy, etc., fit perfectly in this principle and are a perfect match between European Research's emphasis and Nitto Denko's global technology focus. This technology focus is our contribution toward making Nitto Denko grow into a global excellent company.

¹ EEBE stands for external economic benefit evaluation, which is used in evaluating the environmental contributions that a manufacturer has made to society by supplying to the market with a product that was developed using new technology.