



Environmental Conservation Activities

Reducing the Environmental Impact of Products

Control and Reduction of Chemical Substances Contained in Products

Although chemical substances are indispensable for our daily life, they can have a grave effect on the environment if they are not used and controlled in an adequate way. The Oki group is well aware of these effects on the environment and therefore working to control and reduce chemical substances contained in products, to promote green procurement, and to completely eliminate the substances subject to the RoHS directive*¹⁾. *1) RoHS Directive: A directive of the European Parliament and the European Commission on restricting the use of specific hazardous substances contained in electric and electronic equipment.

Control of Chemical Substances

Oki designates chemical substances in products that have a grave effect on the environment and controls them by classifying them into prohibited substances, restricted substances and voluntarily controlled substances. A total of 292 substances are controlled in this way. We have comprehensive controls in place that also cover the six substances subject to the RoHS Directive (European Union (EU) regulations on the use of chemical substances contained in electric and electronic equipment) - lead, hexavalent chromium, cadmium, and others.

Control Criteria for Chemical Substances

Classification	Prohibited substance	Restricted substance	Voluntarily controlled substance
Number of substances	97	94	101
Designation criteria	<ul style="list-style-type: none"> Substances prohibited for manufacturing by laws and regulations Substances requiring manufacturing licenses according to laws and regulations Voluntarily prohibited substances 	<ul style="list-style-type: none"> Substances that a reduction (for example, the time from when a substance will be prohibited for manufacturing) is already decided by laws and regulations Voluntarily restricted substances 	<ul style="list-style-type: none"> All substances not included in "prohibited substances" and "restricted substances."

Promotion of Green Procurement (Reduction of Chemical Substances in Purchased Articles)

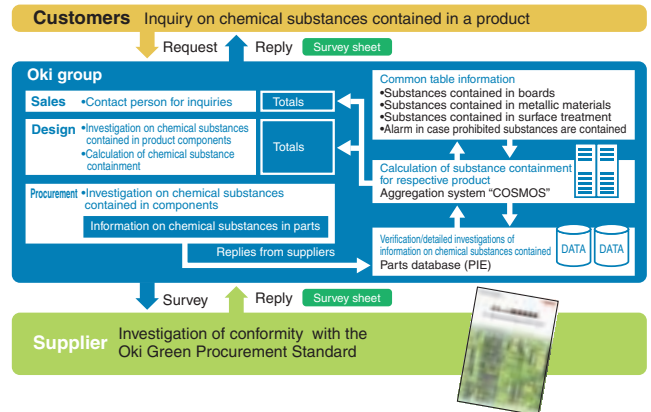
In green procurement, we purchase preferably parts and materials that contain little quantities of chemical substances that affect the environment. Based on the "Green Procurement Standardization Guidelines" created by the Conference on the Standardization of Green Procurement, we established a new "Oki Green Procurement Standard," which has been applied since fiscal 2002.

The Green Procurement Standard contains two documents: one that is applied to electronic and mechanical parts purchased by divisions related to information processing equipment, telecommunications equipment and printers, and one that is applied to material, etc. purchased by electronic device divisions. The two standards are published on our website.

Full Launch of Information System for Chemical Substances Contained in Products

We expanded the information system for chemical substances contained in products "COSMOS" for use throughout the Oki group. The expanded system was fully launched in fiscal 2004. To stop using designated chemical substances for a product, it is necessary to investigate whether these substances exist in each individual component making up the product, and to substitute them with alternatives that are free of these substances. Thanks to the expansion of the system to the entire group, we are now able to share data collected on substances contained in parts purchased by green procurement, so that we need less time to calculate the quantities of substances contained and can thus respond rapidly to requests and inquiries of our customers. We will continue to enhance this system as a tool for evaluating the environmental impact of a product in a comprehensive way.

Chemical Substances Survey Flow in Green Procurement and the Information System for Chemical Substances Contained in Products



Introduction of Energy-dispersive X-ray Fluorescence Spectrometer

If we cannot obtain a reply from the supplier to our survey on substances contained in a part, we have to check for designated substances by ourselves. To do this, the Oki group introduced "energy-dispersive X-ray fluorescence spectrometer," which can analyze parts rapidly without the need for advance treatment, and without destroying the parts. The equipment supports all kinds of test material, such as powder, fluids, metals, plastic, rubber, and others, and can detect a broad range of elements. We also use this equipment when shipping

our own products to check whether specific substances are contained. For the future, we plan to install more of this equipment.



Energy-dispersive X-ray Fluorescence Spectrometer

Transition of Records in the Green Procurement Database

The accumulation of calculated data on environment-affecting substances contained in purchased parts is making progress. In fiscal 2004, the number of database records increased by 13% compared to fiscal 2003. In the future; we will continue to accumulate data, and to enhance our green procurement database.

Transition of Records in the Database of Purchased Parts (Accumulated)

