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Eco-components

- i Construction Components
- ii Electrical and Electronic Components
- iii Semiconductor Manufacturing Devices
- iv Machine Parts
- v Automobile Parts
- vi Others



Eco-components No.001

Construction Components

Prefabricated wooden buildings and structural members for housing

House construction panels made of glued cross wood.

AOMORI HOME COMPONENT CO., LTD

1-3, Yanagawa, Aburakawa, Aomori City, 038-0059 Japan

Tel; 81-17-788-6483 Fax; 81-17-788-6145

E-mail; info@aomori-home.co.jp

URL; <http://www.aomori-home.co.jp>

Category:

- A1. Global Warming
- B2. Longevity
- B4. Higher Quality
- C3. Design and Material selection

This product consists of patented structural panels for use in house construction. Houses are completed in no time by utilizing these panels for wall and ceiling material.

Global Warming: Thinned wood and lumber ends can be used for the fabrication of the Cedar Cross Panels. This technology therefore utilizes forest resources, and furthermore, contributes to the reduction of CO₂ which effects the environment.

High Efficiency: The free space inside the panels is very rot resistant. The Panels offer high-strength with over 60 years of proven durability and sufficient environmental capability.



Products/Model :

The Cedar Cross Panel 2480 x 625 x 90

Eco-components No.002

Construction Components

Interior and exterior building materials

Interior / exterior materials from reproduced AI / discarded glass

Obayashi Corporation, Technical Research Institute

640, Shimokiyoto 4-chome, Kiyoshe-shi, Tokyo, 204-8558 Japan

Tel; 81-424-95-1040 Fax; 81-424-95-1260

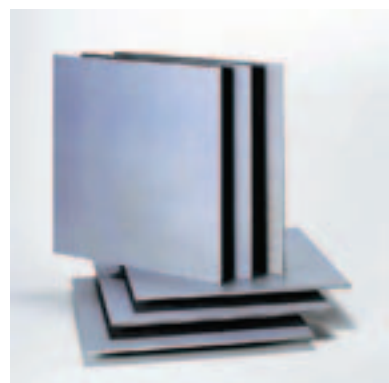
E-mail; mitani.hitofusa@obayashi.co.jp

URL; <http://www.obayashi.co.jp/>

Category:

- A4. Waste
- B1. Recyclability
- B3. Resource Saving
- B7. Usage of Recycled Materials
- C3. Design and Material selection

Alcelite is an interior and exterior finishing material that uses a glass balloon as the primary material. It is made from reproduced aluminum and discarded glass. Its raw materials include recycled products and, in addition, aluminum can be extracted through fusion by heating after use, allowing it to be re-used.



Products/Model :

ALCELITE G type

Eco-components No.003

Construction Components

Other ventilators and Dust collectors

Environmental preservation systems for tunnels and public highways

Matsushita Ecology Systems Co., Ltd.

4017 Shimonakata, Takaki-cho, Kasugai City, Aichi, 486-8522 Japan

Tel; 81-568-81-1666 Fax; 81-568-83-1112

E-mail;

URL; <http://panasonic.co.jp/mesc>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- B4. Higher Quality
- B6. Environmental Purification
- C3. Design and Material selection

We have contributed to the environmental preservation of local communities by providing ventilation systems for tunnels and public highways making the best use of our various technologies such as ventilation, air purification and control measurement for the preservation of comfortable road environment.

[Electrostatic Precipitator]

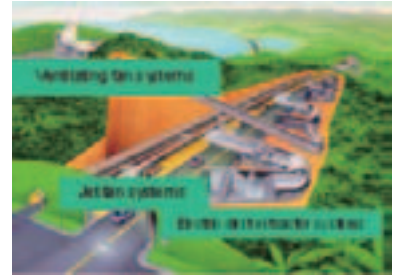
Catches dust floating in the air, especially soot emitted from diesel-engine vehicles, by static electricity in order to enhance visibility in tunnels.

[Ventilating Fans]

Expels polluted air from the tunnel and inhales air from outside. Capable of self-controlling ventilating force depending on the polluted level of the air in the tunnels.

[Jet Fans]

Hung from the tunnel ceiling at appropriate intervals and capable of ventilating air in the tunnel utilizing increased air pressure by the jet flow.



Products/Model :

Tunnel ventilating system in Vietnam

Eco-components No.004

Construction Components

Air-conditioning and housing related equipment

Energy Recovery Ventilator

Matsushita Ecology Systems Co., Ltd.

4017 Shimonakata, Takaki-cho, Kasugai City, Aichi, 486-8522 Japan

Tel; 81-568-81-1666 Fax; 81-568-83-1112

E-mail;

URL; <http://panasonic.co.jp/mesc>

Category:

- A1. Global Warming
- A5. Resource Consumption
- B4. Higher Quality
- B5. Energy Saving
- C3. Design and Material selection

This is a product to suit the need to "ventilate without losing temperature while air-conditioning," and used in buildings both for commercial and residential ventilation while air-conditioning is in operation. This contributes greatly to energy-conservation compared to other ventilating systems.

Product features are;

- (1) Industry No.1 heat recovery efficiency over 70%.
- (2) Industry's highest static pressure makes the product competitive with higher priced models, thus contributing to total cost reduction.
- (3) Compact design: Newly developed element cores make the body size 20% compact at average. We have been developed more than 30 years for the technologies for Energy Recovery Ventilator and obtained international recognition for its highest efficiency and performance reliability.



Products/Model :

Energy Recovery Ventilator Unit

Eco-components No.005

Electrical and Electronic Components

Primary batteries

NAS battery systems

Tokyo Electric Power Company

1-1-3 Uchisaiwai-cho Chiyoda-ku, Tokyo, 100-8560 Japan

Tel; 81-3-4216-1111 Fax; 81-3-4216-6338

E-mail; masaku.takafumi@tepco.co.jp

URL; <http://www.tepco.co.jp>

Category:

- A1. Global Warming
- B5. Energy Saving
- C5. Product Use, Maintenance and Repair

The NAS battery is an energy storage battery that uses sodium in the negative electrode, sulfur in the positive electrode, and solid electrolyte made from beta-alumina ceramics. It is a clean battery that has high energy density, high efficiency, and long life compared to lead-acid battery. This technology is primarily being introduced into factories, office buildings and sewage treatment facilities that wishing to economize their energy cost through load leveling, and into semiconductor plants and customers that need high-quality and highly reliable electric power.



Products/Model :

NAS battery system

Eco-components No.006

Semiconductor Manufacturing Devices

Parts, attachments and accessories of electronic equipment

Small & light-weight in-vehicle CD optical pickup equipped with hologram device

Victor Company of Japan, Ltd.

1644 Shimotsuruma, Yamato City, Kanagawa, 242-8514 Japan

Tel; 81-46-278-1707 Fax; 81-46-278-1785

E-mail;

URL; <http://www.jvc-victor.co.jp/english/global-e.html>

Category:

- A4. Waste
- B1. Recyclability
- B4. Higher Quality
- C5. Product Use, Maintenance and Repair
- C6. End-of-Life

In-vehicle CD reproduction pickup.

<Specifications>

- (1) Supports 4X reproduction
- (2) Operating temperature : -30 to 85 degrees C
- (3) Easy drive control due to light weight (9.6g)



Products/Model :

Pickup for car CD use "OPTIMA726"

Eco-components No.007

Semiconductor Manufacturing Devices

Semiconductor and IC measuring instruments

Intelligent Power Module

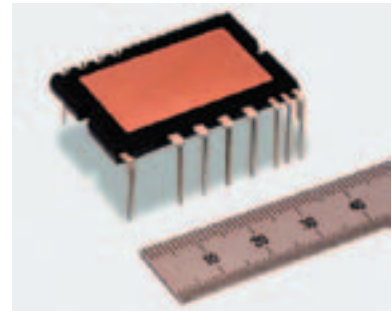
Mitsubishi Electric Corporation

2-2-3 Marunouchi, Chiyoda-ku, Tokyo, 100-8310 Japan
(after 07/Nov./2005 it will be changed to 2-7-3)
Tel; +81-3-3218-9024 Fax; +81-3-3218-2465
E-mail; eqd.eco@hq.melco.co.jp (eqd.eco@pj.MitsubishiElectric.co.jp (after 7/Nov./2005))
URL; <http://www.MitsubishiElectric.co.jp/corporate/eco/index.html>

Category:

- A3. Hazardous Substances
- A5. Resource Consumption
- B3. Resource Saving
- C3. Design and Material selection

1. New insulation package technology with high heat dissipation allows about 60% super-miniaturization compared to previous designs.
2. Uses completely lead-free solder for chip connections and terminal plating inside product.



Products/Model :

Dual-in-line Package Intelligent Power Module

Eco-components No.008

Semiconductor Manufacturing Devices

Semiconductor devices

V MAICOVICON Image sensor in consideration of energy saving

Semiconductor Company, Matsushita Electric Industrial Co., Ltd.

1 Kotari-yakemachi, Nagaokakyo City, Kyoto, 617-8520 Japan
Tel; 81-75-951-8151 Fax;
E-mail;
URL; <http://panasonic.co.jp/semicon/>

Category:

- A1. Global Warming
- B3. Resource Saving
- B4. Higher Quality
- B5. Energy Saving
- C5. Product Use, Maintenance and Repair

This VMAICOVICON Image-sensor is equipped with the following characteristics about Eco-Product.

[Low consumption electricity]

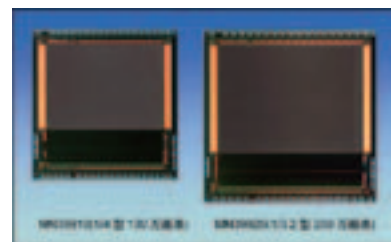
This VMAICOVICON Image-sensor is realized low consumption electricity of about 15% than CCD Image-sensor while having equal basic performances. As a result, we can take a movie for a long time and can contribute to reduction of energy.

[Resource saving]

As for the VMAICOVICON Image-sensor, production process is largely reduced for CCD Image-sensor. As a result, We can reduce resources and energy for production process.

[Miniturization]

We realized smallest 2.8um pixels Image-sensor for mobile cameras, and enabled miniaturization of a high-pixel camera set.



Products/Model :

1/4inch-1.3M / 1/3.2inch-2.0M V MAICOVICON

Eco-components No.009

Semiconductor Manufacturing Devices

Metal oxide semiconductor IC

Superior de-materialized LSI

FUJITSU LIMITED

4-1-1 Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa,
211-8588 Japan

Tel; 81-44-754-3417 Fax; 81-44-754-3326

E-mail; ecobox@fujitsu.com

URL; <http://jp.fujitsu.com/about/csr/eco/>

Category:

- A3. Hazardous Substances
- B3. Resource Saving
- B5. Energy Saving
- C3. Design and Material selection
- C4. Product Manufactures

Materials: Decreased the number of parts from 3 pieces to 1 piece and reduced previous volume and weight by 90%. Achieved fewer space and lower cost of MPEG-2 advanced system for small size products such as notebook personal computers by equipping SDRAM into the same package.



Products/Model :

Encoder LSI MPEG2

Eco-components No.010

Semiconductor Manufacturing Devices

Metal oxide semiconductor IC

Low power System LSI for Digital HDTV

Semiconductor Company, Matsushita Electric Industrial Co., Ltd.

1 Kotari-yakemachi, Nagaokakyo City, Kyoto, 617-8520 Japan

Tel; 81-75-951-8151 Fax;

E-mail;

URL; <http://panasonic.co.jp/semicon/>

Category:

- A1. Global Warming
- A3. Hazardous Substances
- B3. Resource Saving
- B4. Higher Quality
- B5. Energy Saving

Newly developed data processing system makes it possible to realize the reduction from 4 to 2 of external data-memory chips in the chip-set of Digital TV system. (Reduces 30% of power consumption)

- Advanced architecture achieves low power consumption and increased global environmental protection.
- Realizes high quality picture and low price by the development of our original algorithm.
- Flexible enough to support worldwide Digital TV broadcast standards with just a simple change of processor software.
- Lead-free products.



Products/Model :

System LSI for Digital HDTV(MN2WS0025)

Eco-components No.011

Semiconductor Manufacturing Devices

Semiconductor IC

Energy Saving Semiconductor Manufacturing Devices

FUJITSU LIMITED

4-1-1 Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa,
211-8588 Japan

Tel; 81-44-754-3417 Fax; 81-44-754-3326

E-mail; ecobox@fujitsu.com

URL; <http://jp.fujitsu.com/about/csr/eco/>

Category:

- B3. Resource Saving
- B4. Higher Quality
- B5. Energy Saving
- C3. Design and Material selection
- C5. Product Use, Maintenance and Repair

Energy Saving: Improved environmentally related performance (comparing the electrical energy consumed by the LSI device in performing a certain specified volume of work) by 60% by adopting the most advanced 90nm CMOS technology. Improved environmentally related performance by the application of low K-dielectric membrane and shrinking the Poly width of Tr gate electrode.



Products/Model :

Microprocessor for highly efficient servers

Eco-components No.012

Semiconductor Manufacturing Devices

Semiconductor IC

Superior de-materialized and energy saving FRAM

FUJITSU LIMITED

4-1-1 Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa,
211-8588 Japan

Tel; 81-44-754-3417 Fax; 81-44-754-3326

E-mail; ecobox@fujitsu.com

URL; <http://jp.fujitsu.com/about/csr/eco/>

Category:

- A3. Hazardous Substances
- B3. Resource Saving
- B5. Energy Saving
- C3. Design and Material selection
- C4. Product Manufactures

Materials: Used 54% of less material than predecessors by shrinking the size of the non-volatile high-induction memory cell used for backup.

Energy Saving: Reduced electrical consumption by 20% in comparison with BBSRAM, because a battery is not needed for data backup.



Products/Model :

MB85R256S

Eco-components No.013

Semiconductor Manufacturing Devices

Fixed capacitors

Low-profile Styling Functional Polymer Capacitor

FUJITSU MEDIA DEVICES LIMITED

Shin-yokohama Square Bldg. 14F, 2-3-12, Shin-Yokohama, Kohoku-ku,
Yokohama-shi, Kanagawa, 222-0033 Japan
Tel; 81-45-475-6571 Fax; 81-45-475-6583
E-mail; sales@fmd.fujitsu.com
URL; <http://edevice.fujitsu.com/fmd/>

Category:

- A3. Hazardous Substances
- B3. Resource Saving
- B4. Higher Quality
- C3. Design and Material selection
- C4. Product Manufactures

Materials: Achieved the industry's first low-profile styling and reduced previous content by 30% due to miniaturization. (8 × 8mm)

Chemical Substances: Cadmium, mercury, lead, hexavalent chromium, PBB, and PBDE are complied to EU RoHS Directive. No use of antimony and halogen related substances due to the sleeve-less structure.



Products/Model :
FPCAP-RE L8 series

Eco-components No.014

Semiconductor Manufacturing Devices

Small motors, less than 3W

Fluid dynamic bearing 2.5 inch HDD motor, Low noise & voltage, Impact resistance

Victor Company of Japan, Ltd.

1644 Shimotsuruma, Yamato City, Kanagawa, 242-8514 Japan
Tel; 81-46-278-1707 Fax; 81-46-278-1785
E-mail;
URL; <http://www.jvc-victor.co.jp/english/global-e.html>

Category:

- A4. Waste
- B1. Recyclability
- B4. Higher Quality
- C5. Product Use, Maintenance and Repair
- C6. End-of-Life

Low noise and low current are realized by optimum magnetic circuit design and by employing FDP (Fluid Dynamic Bearing). Impact resistance of 1500G guaranteed. Various applications for laptop PC, digital audio visual home appliances, and in-vehicle use.



Products/Model :
HDD spindle motor: EC37 series

Eco-components No.015

Semiconductor Manufacturing Devices

Relays

Downsized Silent Relay

FUJITSU COMPONENT LIMITED

Gotanda-Chuo Bldg., 3-5, Higashi-Gotanda 2-chome, Sinagawa-ku,
Tokyo, 141-8630 Japan
Tel; 81-3-5449-7010 Fax; 81-3-5449-2626
E-mail; promoqh@fcl.fujitsu.com
URL; <http://www.fcl.fujitsu.com/>

Category:

- A3. Hazardous Substances
- B3. Resource Saving
- B4. Higher Quality
- C3. Design and Material selection
- C5. Product Use, Maintenance and Repair

Quietness: Achieved the world's first silent relay with low-profile styling and the product height of 19mm (Mar. 05). Average sound pressure is 55db.(previous product is 70db)

Safeness: Achieved voltage endurance of more than 5000V and surge endurance of more than 10000V by securing the insulation distance between coil contact points for more than 8mm. Adopted the plastics of UL94 flame resistance class V-0.

Chemical Substances: Cadmium, mercury, lead, hexavalent chromium, PBB, and PBDE are complied to EU RoHS Directive.



Products/Model :
FTR-H3 series

Eco-components No.016

Semiconductor Manufacturing Devices

Electronic parts

Energy Saving Electric Transceiver Module

FUJITSU COMPONENT LIMITED

Gotanda-Chuo Bldg., 3-5, Higashi-Gotanda 2-chome, Sinagawa-ku,
Tokyo, 141-8630 Japan
Tel; 81-3-5449-7010 Fax; 81-3-5449-2626
E-mail; promoqh@fcl.fujitsu.com
URL; <http://www.fcl.fujitsu.com/>

Category:

- B3. Resource Saving
- B4. Higher Quality
- B5. Energy Saving
- C3. Design and Material selection
- C5. Product Use, Maintenance and Repair

Energy Saving: Achieved 2.9W of electricity consumption when operating. Reduced previous electricity consumption by 30-50%.

High Specifications: Complied to XENPAK/X2 MSA figure and enabled to insert existing optical module slot. Loaded Fujitsu Component's microGiGaCN which is introduced many next-generation high-speed interface standard. Achieved transmission of 3.125Gbps × 4channel with 20m, 10Gbps bidirectional communication by copper cable.



Products/Model :
FCU-010/022M 10GBASE-CX4 X2

Eco-components No.017

Semiconductor Manufacturing Devices

Electronic parts

Microminiaturized SAW Duplexer

FUJITSU MEDIA DEVICES LIMITED

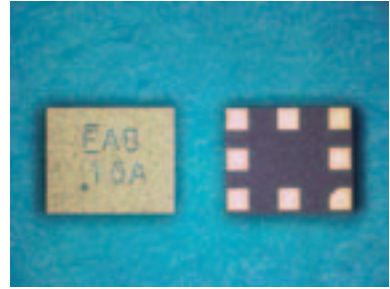
Shin-yokohama Square Bldg. 14F, 2-3-12, Shin-Yokohama, Kohoku-ku,
Yokohama-shi, Kanagawa, 222-0033 Japan
Tel; 81-45-475-6571 Fax; 81-45-475-6583
E-mail; sales@fmd.fujitsu.com
URL; <http://edevic.fujitsu.com/fmd/>

Category:

- A3. Hazardous Substances
- B3. Resource Saving
- B4. Higher Quality
- C3. Design and Material selection
- C4. Product Manufactures

Materials: Achieved the industry's first small configuration due to miniaturization and low-profile styling and reduced previous volume by 88%. (3.0 × 2.5 × 0.7mm)

Chemical Substances: Cadmium, mercury, lead, hexavalent chromium, PBB, and PBDE are complied to EU RoHS Directive.



Products/Model :

SAW Duplexer D6GZ/D6GV

Eco-components No.018

Semiconductor Manufacturing Devices

Electronic parts

Superior De-materialized Wireless LAN Module

FUJITSU MEDIA DEVICES LIMITED

Shin-yokohama Square Bldg. 14F, 2-3-12, Shin-Yokohama, Kohoku-ku,
Yokohama-shi, Kanagawa, 222-0033 Japan
Tel; 81-45-475-6571 Fax; 81-45-475-6583
E-mail; sales@fmd.fujitsu.com
URL; <http://edevic.fujitsu.com/fmd/>

Category:

- A3. Hazardous Substances
- B3. Resource Saving
- B4. Higher Quality
- C3. Design and Material selection
- C4. Product Manufactures

Materials: Reduced previous volume by 47% due to miniaturization.
(Smallest in Industry)

Chemical Substances: Cadmium, mercury, lead, hexavalent chromium, PBB, and PBDE are complied to EU RoHS Directive.
No use of halogen flame retardant and antimony compound from printed circuit board.



Products/Model :

MBH7WLZ07M

Eco-components No.019

Machine Parts

Rolled and drawn copper products

Thermo-fin

Hitachi Cable., Ltd.

9-7 Ikenohata 2-chome, Taito-ku, Tokyo, 110-0008 Japan

Tel; 81-29-826-7429 Fax;

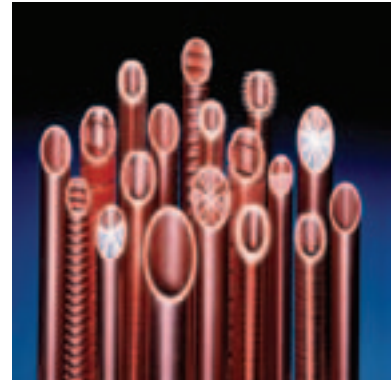
E-mail;

URL; <http://www.hitachi-cable.co.jp/>

Category:

- A1. Global Warming
- A5. Resource Consumption
- B5. Energy Saving

Making about 30% efficient is achieved because of the processing of the ditch in the copper pipe. The surface area on the inside is increased because a detailed ditch is processed in the copper pipe, and making about 30% efficient is achieved by the effect of the refrigerative of the condensation promotion. Only the copper that can be recycled by 100.



Products/Model :
Thermo-fin

Eco-components No.020

Machine Parts

Roller bearings, except ones for bearing units

EM/EW series high load rating cylindrical roller bearings

NSK Ltd.

Nissei Bldg., 1-6-3, Ohsaki, Shinagawa-ku, Tokyo, 141-8560 Japan

Tel; +81-3-3779-7111 Fax; +81-3-3779-7431

E-mail;

URL; <http://www.nsk.com>

Category:

- A1. Global Warming
- B2. Longevity
- B3. Resource Saving
- B5. Energy Saving
- C5. Product Use, Maintenance and Repair

Cylindrical roller bearings have a high capacity and are able to run at high speeds. They are widely used for general industrial machinery such as steel-making and construction machinery, large-scale electric motors. However, a difficult balance exists between bearing life, bearing tolerances and bearing noise. NSK, with its R&D expertise and production technique, offers a full lineup of cylindrical roller bearings for different applications. NSK has come to dominate this opposing position by providing a variety of kinds of cylindrical roller bearings to meet the needs of different applications. The EM (with copper alloy machined cage) and EW (with steel plate cage) Series are designed with high-capacity reinforced cage guiding rollers, and improved mechanical fatigue strength, thereby doubling their working lives compared to conventional designs. Also, the high-precision cages cut vibration resulting in a 50% noise reduction when compared to conventional cages. All these products have been designed to further enhance our environmental performance.



Products/Model :
EM/EW series cylindrical roller bearings

Eco-components No.021

Machine Parts

Thick film IC

Advanced Hollow Fiber Membrane for wastewater treatment by MBR

Mitsubishi Rayon Engineering Co., Ltd.

6-41, Konan 1-Chome, Minato-ku, Tokyo, 108-8506 Japan

Tel; 81-3-5495-3152 Fax; 81-3-5495-3217

E-mail; membrane.mre@mrc.co.jp

URL; <http://www.mrc.co.jp/mre/>

Category:

- A4. Waste
- B3. Resource Saving
- B5. Energy Saving
- B6. Environmental Purification
- C6. End-of-Life

Membrane bioreactor (MBR) technology has been used around the world for its ability to create safe and pleasant environment. Our advanced hollow fiber membrane for MBR, that named Sterapore SADF, materializes saving space/energy and easy maintenance, which can be adapted to large capacity wastewater treatment facilities.



Products/Model :

SADF2590A, SAA50090APE06

Eco-components No.022

Machine Parts

Small motors, less than 3W

Eco-friendly motor with High efficiency and reduced size

Mitsubishi Electric Corporation

2-2-3 Marunouchi, Chiyoda-ku, Tokyo, 100-8310 Japan

(after 07/Nov./2005 it will be changed to 2-7-3)

Tel; +81-3-3218-9024 Fax; +81-3-3218-2465

E-mail; eqd.eco@hq.melco.co.jp

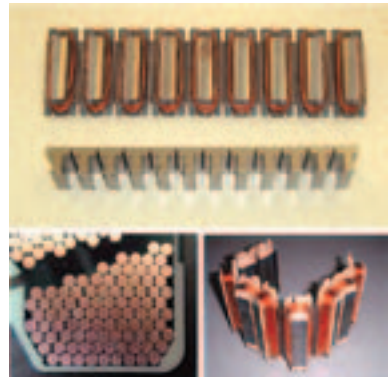
(eqd.eco@pj.MitsubishiElectric.co.jp (after 7/Nov./2005))

URL; <http://www.MitsubishiElectric.co.jp/corporate/eco/index.html>

Category:

- A1. Global Warming
- A5. Resource Consumption
- B4. Higher Quality
- B5. Energy Saving
- C2. Material and Components Production

Motors account for about 50% of electrical consumption in Japan. The Poki Poki Motor® is based on a production technology that was developed in 1995 to boost both performance and manufacturing productivity. This motor is produced by unique method developed by Mitsubishi Electric of winding the coils around the stator core and then bending it into a round shape, allowing for high-speed winding during production. The higher coil density makes these motors more efficient and compact. These motors are being used in many products today, from air conditioners and other home appliances to elevators.



Products/Model :

Poki Poki Motor®

Eco-components No.023

Machine Parts

Motor vehicle parts and accessories

Power cable Harness for Hybrid Vehicles

Hitachi-Cable, Ltd. Electronic & Automotive Products Group

1-6-1 Otemachi, Chiyoda-ku, Tokyo, 100-0004 Japan

Tel; 81-3-5252-3438 Fax; 81-3-3215-1630

E-mail; kondo.yasuhiro@hitachi-cable.co.jp

URL; <http://www.hitachi-cable.co.jp/> (Japanese)

Category:

- A3. Hazardous Substances
- C2. Material and Components Production

Ecological Cable with Fine Durability for Vibration and Bending at Low Temperature. Halogen Free Ecological Cable (Halogen cause toxic substance in combustion.) Keep outstanding durability for bending and vibration under $-40\sim-30\text{C}$ ($-22\sim-62\text{F}$) Use of fine materials for small diameter cable corresponded to small Active ABS sensor¹⁾

1) A Generic term for sensors using semiconductor device such as Hall IC



Products/Model :

Power cable Harness

Eco-components No.024

Machine Parts

Motor vehicle parts and accessories

Brake hoses

Hitachi Cable., Ltd.

1-6-1 Otemachi, Chiyoda-ku, Tokyo 100-0004 Japan

Tel; Fax;

E-mail;

URL; <http://www.hitachi-cable.co.jp/>

Category:

- A1. Global Warming
- A5. Resource Consumption
- B5. Energy Saving

New surface treatment metal fittings that do not use hexavalent chromium. Low expansiveness and long life when pressurizing it by material development and reviewing material composition. The energy saving is achieved by developing a precise, cold, forged manufacturing method of metal fittings.



Products/Model :

Brake hoses

Eco-components No.025

Automobile Parts

Tires for trucks and buses

Tire for Super Single Drive Axle GREATEC

Bridgestone Corporation

10-1, Kyobashi 1-chome Chuo-ku, Tokyo, 104-8340 Japan

Tel; 81-3-3563-6972 Fax; 81-3-3563-1165

E-mail;

URL; <http://www.bridgestone.co.jp/english/index.html>

Category:

- A1. Global Warming
- A2. Air Pollution
- A5. Resource Consumption
- C5. Product Use, Maintenance and Repair
- C6. End-of-Life

Bridgestone launched the GREATEC line in 2000 as ultralow aspect ratio tires to replace dual drive tires on trucks and buses with single tires. GREATEC tires improve fuel economy because a GREATEC tire and rim weighs less than two conventional tires and rims. In addition, this concept contributes to waste saving.



Products/Model :
GREATEC 495/45R225 for Truck

Eco-components No.026

Automobile Parts

Tires for trucks and buses

Fuel economy Truck and Bus Tires ECOPIA

Bridgestone Corporation

10-1, Kyobashi 1-chome Chuo-ku, Tokyo, 104-8340 Japan

Tel; 81-3-3563-6972 Fax; 81-3-3563-1165

E-mail;

URL; <http://www.bridgestone.co.jp/english/index.html>

Category:

- A1. Global Warming
- A2. Air Pollution
- A5. Resource Consumption
- B5. Energy Saving
- C5. Product Use, Maintenance and Repair

It is necessary to develop the new generation tire for fuel saving and preserving environment of the earth. Especially, it is useful for truck and bus which are gas-guzzling cars to reduce the rolling resistance of its tires. Bridgestone corporation has developed the low rolling resistance truck and bus tires, and has already launched to the market, dubbed ECOPIA line. ECOPIA has superior low rolling resistance for a long haul users keeping basic tire performances.



Products/Model :
ECOPIA 11R225 for Truck

Eco-components No.027

Automobile Parts

Tires for passenger car

SSR (Self Supporting Runflat Tire)

Bridgestone Corporation

10-1, Kyobashi 1-chome Chuo-ku, Tokyo, 104-8340 Japan

Tel; 81-3-3563-6972 Fax; 81-3-3563-1165

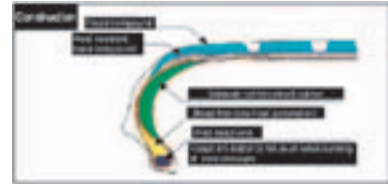
E-mail;

URL; <http://www.bridgestone.co.jp/english/index.html>

Category:

- A4. Waste
- A5. Resource Consumption
- B3. Resource Saving
- B5. Energy Saving
- C6. End-of-Life

They can keep a tire functioning to drive a car safely at a specified speed for a specified distance after a loss of tire pressure. Resources can be saved by eliminating the need for a spare tire with a wheel, which are often discarded even in mint condition. (90% of spare tires have been discarded in mint condition.)



Eco-components No.028

Automobile Parts

Diesel engines for motor vehicles

Low fuel consumption common rail diesel engine

Toyota Motor Corporation

1, Toyota-cho, Toyota-shi, Aichi, 471-8571 Japan

Tel; 81-565-23-1572 Fax; 81-565-23-1589

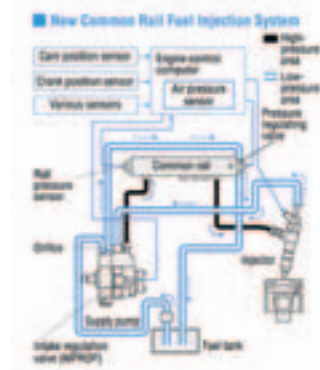
E-mail; hiromasa_hino@mail.toyota.co.jp

URL; <http://www.toyota.co.jp>

Category:

- A1. Global Warming
- A5. Resource Consumption
- B5. Energy Saving
- C5. Product Use, Maintenance and Repair

The common rail fuel injection system ensures stable fuel injection pressure even at low gear without any effect on the engine. This is due to the storage of high pressure fuel produced with a pump within common rail. The direct-injection diesel engine achieves low fuel consumption and features a turbocharger with intercooler.



Products/Model :

common rail fuel injection system

Eco-components No.029

Automobile Parts

Parts of driving, transmission and operating units

Manufacturing process on clutch disk for automatic transmission unit

Dynax Corporation

1053-2, Kamiosatsu, Chitose-City, Hokkaido, 066-8585 Japan
Tel; 81-123-24-2135 Fax; 81-123-24-2893
E-mail; information@mail.dxj.co.jp
URL; <http://www.dxj.co.jp>

Category:

- A4. Waste
- A5. Resource Consumption
- B1. Recyclability
- B3. Resource Saving
- B7. Usage of Recycled Materials

Standard automatic transmission unit has several clutches for speed gear change and about twenty to thirty numbers of clutch disc plates are assembled in clutches. Considering the environmental circumstance of Earth, We, Dynax Corporation, can realize hundred per cent material recycle in production process. Clutch disc plate are composed of friction materials and core steel plate. Before, we were obliged to dispose of un-utilized friction materials by seventy per cent as industrial scrap, but we could improve the utilization of friction materials and now we have installed a new production process with hundred per cent recycle system. We also realize hundred per cent recycle system for steel scrap and introduce an unmanned full automated process line.



Products/Model :

Tomakomai factory Clutch disk for automatic

Eco-components No.030

Automobile Parts

Parts of driving, transmission and operating units

Groove Pattern for Drag Torque Reduction

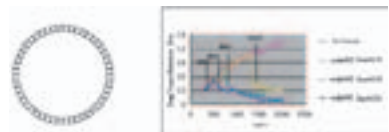
Dynax Corporation

1053-2, Kamiosatsu, Chitose-City, Hokkaido, 066-8585 Japan
Tel; 81-123-24-2135 Fax; 81-123-24-2893
E-mail; information@mail.dxj.co.jp
URL; <http://www.dxj.co.jp>

Category:

- B4. Higher Quality
- B5. Energy Saving
- C2. Material and Components Production
- C3. Design and Material selection

Standard automatic transmission are composed of several clutches and during a driving operation always we find a free revolving clutch. As a critical cause of kinetic and torque loss we must solve this problem of drag torque in case such a free revolving clutch were occurred. We, Dynax Corporation, could realize to decrease such a kinetic loss by fifty per cent by introducing the new art of grooving the special pattern channel on the surface of friction materials to run gear oil. We, Dynax Corporation, have been making research and development to present a suitable pattern or formula for better oil running and made great contributions to produce a oil and energy saving car.



Products/Model :

Groove Design Effects of Groove Design

Eco-components No.031

Automobile Parts

Motor vehicle parts and accessories

CERAMIC FILTER of EXHAUST GAS CLEANUP for DIESEL ENGINE

Hitachi Metals Automotive Components Company

6-27-19 Haramatida, matida-shi, Tokyo, 194-0013 Japan

Tel; 81-42-732-5335 Fax;

E-mail;

URL; http://www.hitachi-metals.co.jp/e/prod/prod06/p06_09.html

Category:

- A2. Air Pollution
- B6. Environmental Purification
- C5. Product Use, Maintenance and Repair

Coexistence of high filtration efficiency and low fuel consumption (low pressure drop) Contribute to reduce PM (Particulate Matter) of diesel vehicles which are low fuel consumption and energy saving Realize low pressure drop and lightweight High filtration efficiency, without worsening fuel consumption Correspond to new long-term emission regulation.



Products/Model :
CERAMIC FILTER

Eco-components No.032

Others

Printing Ink

Sheet-fed offset printing ink containing soybean oil

TOYO INK MFG. CO., LTD.

3-13, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B7. Usage of Recycled Materials
- C3. Design and Material selection

This is low pollution/low emission printing ink. Aromatic ingredients content in the ink is less than 11%, soy oil content is more than 20%, which doesn't deteriorate drying on print, still ensure printing of the same quality as regular ink.



Products/Model :
TK Hy-Unity SOY

Eco-components No.033

Others

Printing Ink

Sheet-fed offset printing ink containing soybean oil and no VOC

TOYO INK MFG. CO., LTD.

3-13, Kyobashi 2-chome, Chuo-ku Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B7. Usage of Recycled Materials
- C3. Design and Material selection

This is sheet-fed offset printing ink for thin paper with low pollution/emission, which doesn't contain any VOC(abbreviation of Volatile Organic Compound, petroleum solvent). It has good setting and drying properties equivalent to regular sheet-fed process ink. It acquired the "Soy Seal" issued by the ASA(American Soybean Association), which certifies that the ink contains soybean oil/soybean protein. Besides, vegetable oil replaced VOC in the ink, and aromatic capacity ratio in the ink was set at less than 1%.



Products/Model :
TK Hy-Ecoo NV

Eco-components No.034

Others

Printing Ink

Web offset ink containing soybean oil and no aromatic solvent

TOYO INK MFG. CO., LTD.

3-13 Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B7. Usage of Recycled Materials
- C3. Design and Material selection

This is high-performance web offset process ink with low pollution/emission, containing soybean oil. It realized equivalent efficiency to conventional products without detriment to drying property. From the standpoint of environmental conservation, it uses only aroma-free solvent and soybean oil more than 7% of whole content. Aromatic capacity ratio is set at less than 1%.



Products/Model :
WD LeoEcoo SOY

Eco-components No.035

Others

Printing Ink

Hybrid UV ink containing soybean oil with deinking properties

TOYO INK MFG. CO., LTD.

3-13, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B7. Usage of Recycled Materials
- C3. Design and Material selection

This is the new generation printing ink combining the printing effect of oil ink and quick drying properties of UV ink, which enables to make out high-gloss print with high color rendition. It is eco-friendly low pollution/low emission type printing ink with deinking properties same as oil ink, certified with Soy Seal. Aromatic capacity ratio is set at less than 1% and VOC is 0%. The percentage of soybean oil contained in the ink is more than 7%.



Products/Model :
FD Hybrid Eco SOY

Eco-components No.036

Others

Printing Ink

Water based gravure printing ink for laminated films

TOYO INK MFG. CO., LTD.

3-13, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B3. Resource Saving
- C3. Design and Material selection

This is non-hazardous water based gravure printing ink with low pollution and low emission. It is multi-purpose lamination ink applicable for wide range areas from snack to retort food. The percentage of VOC contained ink is set at less than 20%.



Eco-components No.037

Others

Printing Ink

Water based gravure printing ink for polystyrene film

TOYO INK MFG. CO., LTD.

3-13, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B3. Resource Saving
- C3. Design and Material selection

This water based gravure printing ink is non-hazardous ink with low pollution/emission. Among different applications, it is particularly suitable for printing on polystyrene shrink label for PET bottles. VOC (volatile organic compounds) content in the ink is set at less than 20%.



Eco-components No.038

Others

Printing Ink

Water based flexographic printing ink for corrugated Boards

TOYO INK MFG. CO., LTD.

3-13, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8377 Japan

Tel; 81-3-3272-5720 Fax; 81-3-3272-9788

E-mail; master@toyoink.co.jp

URL; <http://www.toyoink.co.jp>

Category:

- A2. Air Pollution
- A3. Hazardous Substances
- A5. Resource Consumption
- B3. Resource Saving
- C3. Design and Material selection

100% water based flexographic ink with low pollution and low emission. This ink is for corrugated boards, designed to have low viscosity and high concentration. It is excellent at fast drying, decorative property, and printability. The percentage of VOC content in the ink is less than 5%.



Reverse osmosis membrane element for high quality pure water**Nitto Denko Corporation**

1-1-2, Shimohozumi, Ibaraki, Osaka, 567-8680 Japan

Tel; 81-72-622-2981 Fax; 81-72-626-1505

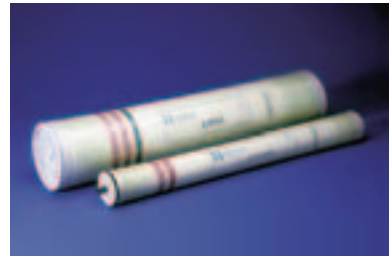
E-mail; info@hydranautics.com

URL; <http://www.nitto.com> or, <http://www.membranes.com>

Category:

- A5. Resource Consumption
- B4. Higher Quality
- B5. Energy Saving
- B6. Environmental Purification
- C5. Product Use, Maintenance and Repair

This Reverse osmosis membrane is used for producing ultrapure water from river water, or ground water for industrial use, safe drinking water from foul water and agricultural water. It eliminates impurities like salinity contained in water with very fine pores on the membrane surface. The "ESPA series" which is globally supplied under Hydranautics brand can create high quality pure water using around half of the energy required by current products. It was developed to produce ultrapure water vital to manufacture of semiconductors. The membrane has a skin layer of 0.6 micron-meter thick, with a well-developed three-dimensional pleated structure with a depth of 0.4 micron-meter, which increases double the specific surface area. Accordingly, this allows the permeate water to be produced with less pressure than was previously needed. "ESPA4" has a highest productivity & rejection with next-generation performance.



Products/Model :

ESPA4 from Hydranautics