

Nitto Denko Group's Relationship with the Environment

Main Environment-conscious Products

By providing many products that reduce environmental load to a wide range of industrial fields, the Nitto Denko Group has contributed to reduction of environmental load of society in general. Here we introduce a brief description of representative environment-conscious products.

1. Products that contribute to environmental conservation of local area or customers

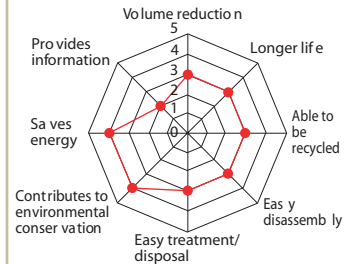
[Energy saving]

Changes sea water to drinking water.

◆Ultra low pressure reverse osmosis membrane (RO) element "ES Series"

•High energy saving filter membrane

Realizes 99.7% salinity blocking at 0.5 – 0.6 MPa low pressure operation. Offers efficient water desalination using 50% less energy. Used for desalination of brackish water, manufacture of ultra pure water for semiconductor manufacturing, manufacture of germ free water for medical use, and various types of separation, purification and concentration systems.



2. Products that contribute to reduced environmental load when used

[Energy saving]

Enhances brightness of liquid crystal displays and contributes to energy saving

◆Polarization converting system (NIPOCS)

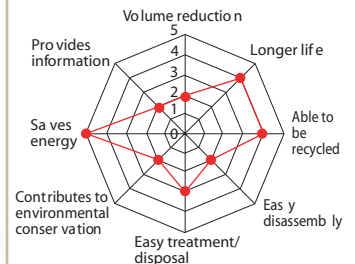
[*Fiscal 1999 Nikkei Excellent Product/Service Award, Excellence Award, Nikkei Sangyo Shimbun Award" received]

•50% better screen brightness

By applying to LCD of personal computers and cellular telephones, screen brightness is improved 50 - 60%.

•For equipment energy saving

Conventional polarizing film wastes 50% of light from the light source. NIPOCS distorts the direction of the light so it can be reused when re-lected by a reflector of the light source. Extends battery life by 30% while maintaining the same screen brightness as conventional polarizing film.



[Energy saving]

Reduces heat load of heater and improves energy saving

◆Polyimide belt for copier

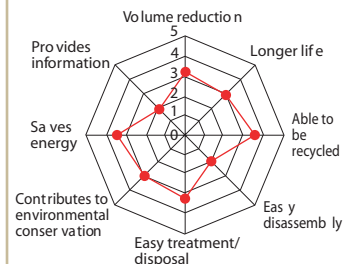
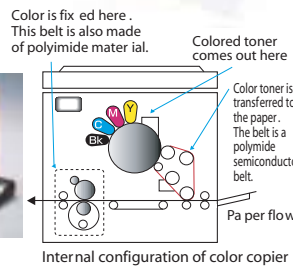
[*Fiscal 2001 Nikkei Excellent Product/Service Award, Superior Award, Nikkei Sangyo Shimbun Award" received]

•Reduces heat load of heater.

Polyimide belts have less heat capacity than metal belts. By using for fixing roll material of copiers heating load of the heater can be reduced. Contributes to energy saving.

•Enables lightweight, compact design.

Enables more compact, lighter weight design than metal rolls.



3. Products that can be easily recycled when disposed of

[Facilitates recycling (easy disassembly)]

Can be peeled off without tearing or leaving residue.

◆Recyclable, reusable double-coated adhesive tape "No. 5000NS"

•Facilitates disassembly and recycling of household appliances and OA equipment.

The Household Electrical Appliance Law (went into effect April 2001) requires televisions and air conditioners be easy to disassemble to facilitate recycling.

No. 5000NS peels off cleanly to facilitate disassembly.

•Doesn't tear or leave residue

Adopts strong nonwoven cloth for base material and special adhesive to enable proper recycling without leaving adhesive or base material on parts.

