

## Dealing with Environmental Risk

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To minimize the potential environmental risk of Murata's business activities, particularly in the event of an accident, we are preparing facilities intended to eliminate any impact on the surrounding environment. With special consideration for the scale and period of impact, we have established the following four voluntary standards for storage and transport of chemical substances within plant facilities. The implementation of relevant countermeasures was completed during fiscal 2002.

#### Prohibition against Underground Storage Tanks

In principle, storage tanks for fuel, organic solvents, acids, alkalis, waste liquids and wastewater tanks for treating wastewater shall be located above ground. If it is unavoidable that a tank be placed underground due to legal requirements, it shall be a double-walled tank.

Example of aboveground tank



(Murata Manufacturing Co., Ltd. Yasu Plant)

#### Prohibition against Underground Piping

Pipes for transporting fluids such as fuel, organic solvents, acids and alkalis as well as waste liquids shall be located overhead.

Example of overhead piping



(Toyama Murata Manufacturing Co., Ltd.)

#### Cost of Countermeasures to Prevent Ground Permeation (Millions of yen)

FY1995-FY2002	
Nonconsolidated	Consolidated
1,004	2,355

#### Permeation Barrier Coating

Locations where fluids such as fuel, organic solvents, acids, and alkalis as well as waste liquids are handled shall be provided with a bed made of a permeation barrier coating or stainless steel.

Example of permeation barrier coating



(Murata Electronics (Malaysia) Sdn. Bhd.)

#### Emergency Containment Structure

Workplaces where liquids are received or where waste liquids are discharged to or from tank trucks or the like shall have a structure for immediately containing any leakage should an accident occur.

Example of emergency containment structure



(Murata Manufacturing Co., Ltd. Himi Plant)

#### Monitoring the Condition of Long-term Industrial Waste Disposal

Murata's plants and subsidiaries entrust the disposal of industrial wastes to licensed specialist companies. We visit the disposal sites at fixed intervals to ensure continued proper disposal that imparts no secondary environmental impact. We also confirm that proper disposal is practiced.

