



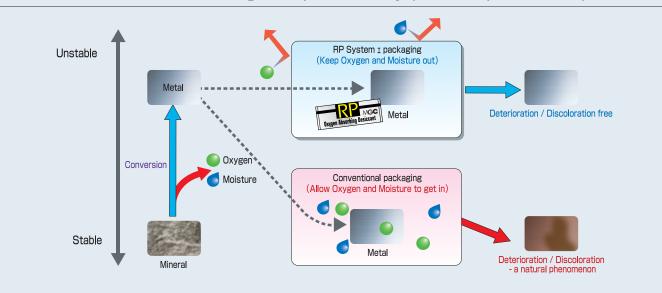
## Why Do Your Customers Complain About Your Product Quality In Spite Of The Fact That All Items Have Passed Outgoing Inspections?

**Because There Is No Atmospheric Control during Transportation / Storage** 

Metal Is Unstable According To Thermodynamic Theory.

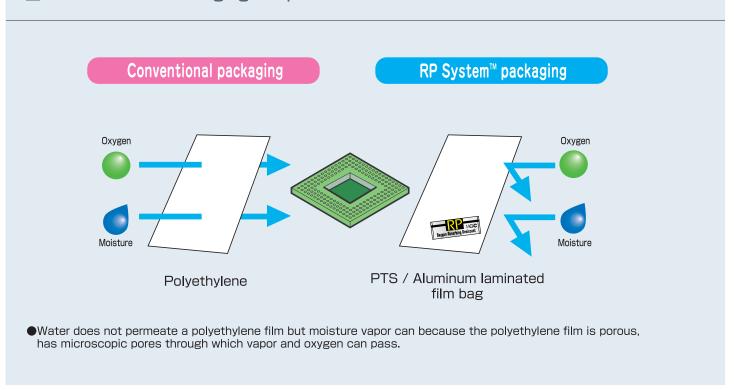
Ambient conditions during transportation / storage contain oxygen and moisture.

In these conditions metals degrade spontaneously (a natural phenomenon).

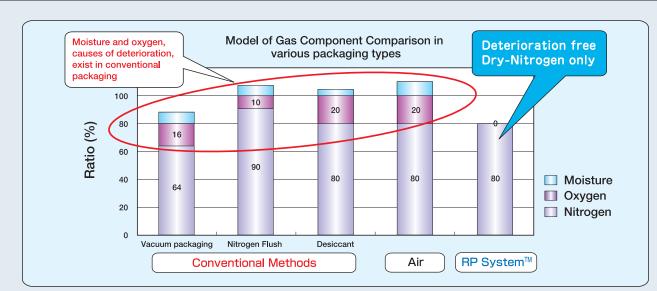


- •Metal exists in a stable form as mineral ore in the earth. Therefore energy is required for Conversion to remove moisture and oxygen from the mineral ore to obtain pure Metal.
- •When Metal, Oxygen and Moisture exist together, the more stable compound will form spontaneously. This is called degradation, such as discoloration, oxidation or corrosion.

## ■ Conventional Packaging Keeps Water Out But Lets Moisture In

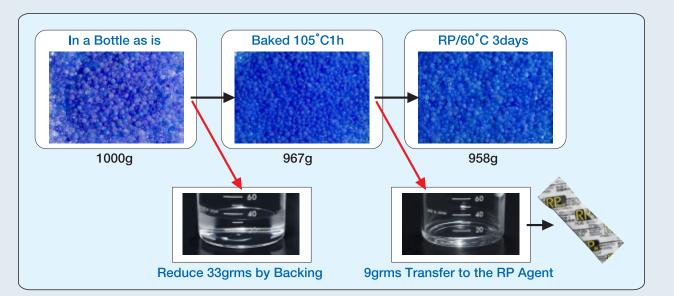


■ There Is No Cause of Deterioration Inside The High Gas Barrier Packaging with RP Agent



- \*Moisture is exaggerated in the figure For ease of understanding, moisture is shown above the air component.
- The gases which cause deterioration remain in conventional packaging
- •RP Systemi creates a dry Nitrogen only environment in the packaging, thus there is no product deterioration.

■ Silica Gel Releases Moisture Depend up Situation.



- Conventional desiccants, like silica-gel which are adsorbers, are reusable by re-baking. However, this means desiccants release moisture in some situations
- •RP agent absorbs moisture by means of a chemical reaction. Therefore, moisture transfers from silica-gel to the RP agent exist together in the high gas barrier packaging.



**Application Examples** 

dewing by air transportation

■Long-Term Storage

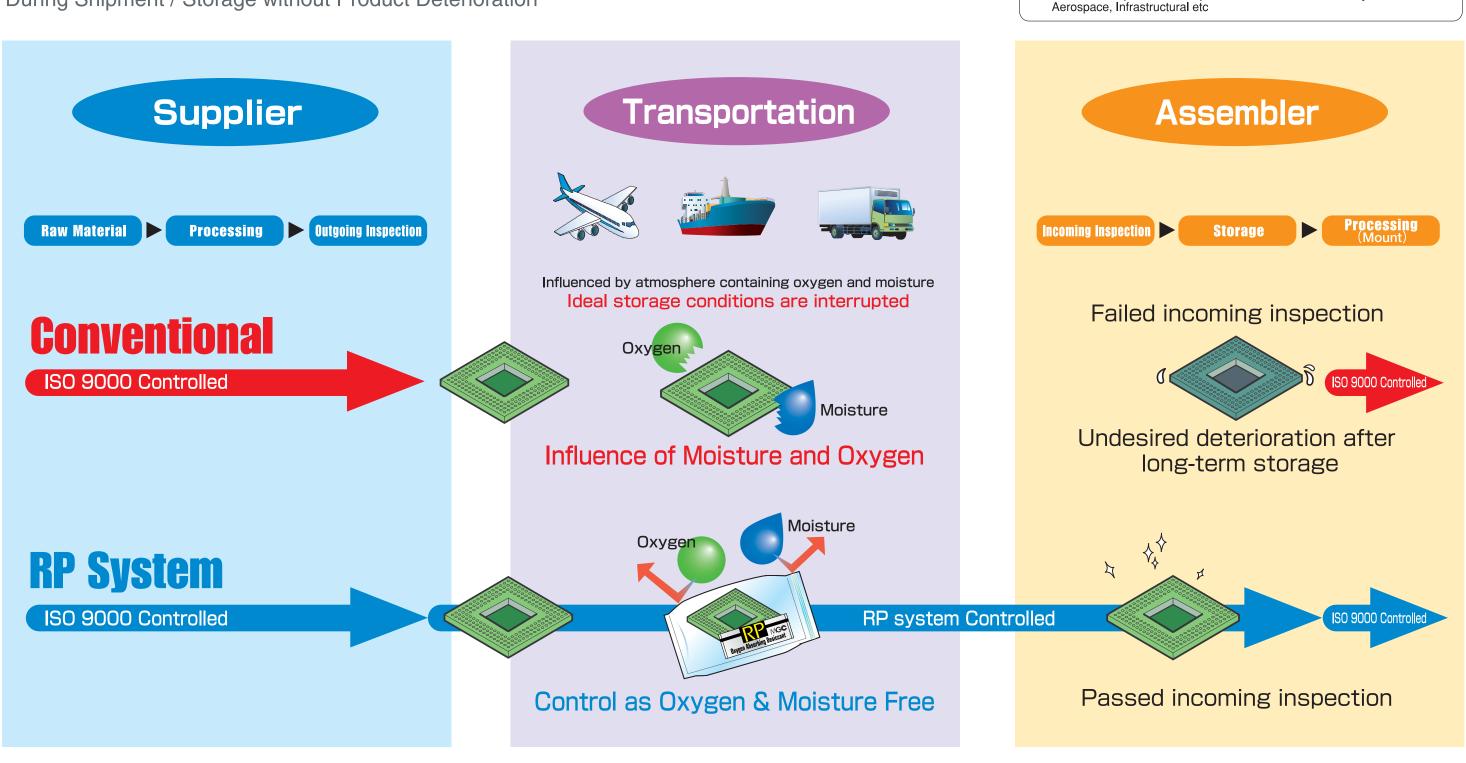
■Transportation: Export / Import Trading

To / from humid and high-temperature area, transportation by boat and

(Discontinued Components Especially Semi-Conductors and PWBs) Maintenance parts and components for Automotive, Military, Avionic,

## Products Manufactured Under Strict Quality Control Should Be Delivered To Your Customers Under The Same Strict Control.

RPSystem™ Preserves Products as Manufactured under Oxygen and Moisture-Free Conditions During Shipment / Storage without Product Deterioration





## Oxygen Absorbers Division

Mitsubishi Bldg, 5-2, Marunouchi 2 Chome, Chiyodaku, Tokyo, 100-8324 Japan Phone: +81-3-3283-5167 FAX: +81-3-3287-1785 http://www.mgc.co.jp/rp/
Preferable contact method: Please fill out an inquiry form on the web site.