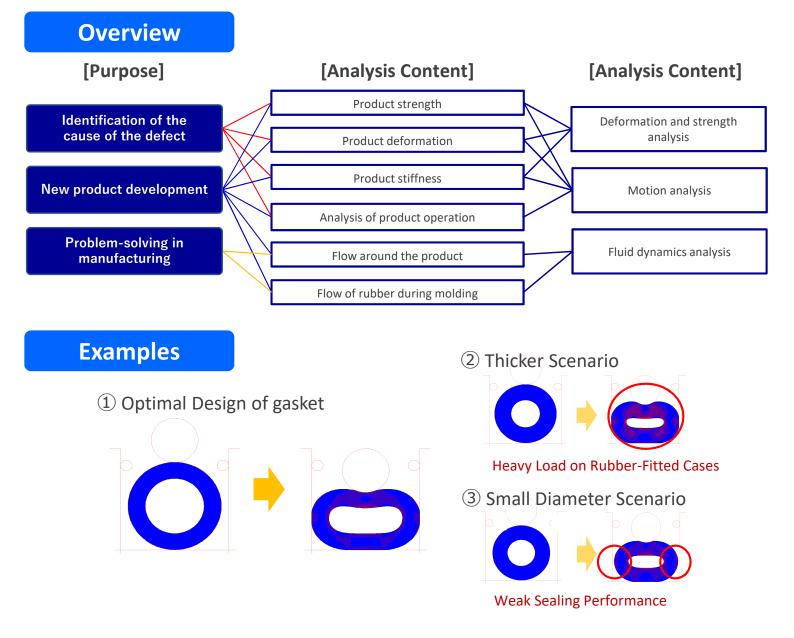
Fujikura FUJIKURA COMPOSITES **Material Analysis & Techniques**

Numerical Analysis of Materials

Supports optimal product design by understanding and improving functionality during the design phase, regardless of material, type, or specification.

Analysis Findings

- : Checking Seal Strength Pressure
- Deformation : Confirming Abnormal Deformation
- - Internal Stress : Verifying Rubber Damage
- Reaction Force : Force Applied to the Case (Insertion Force)

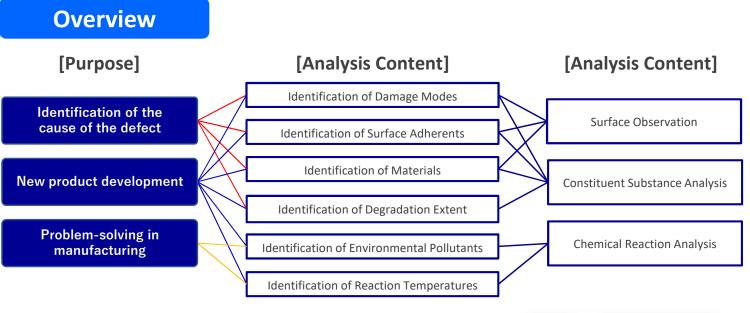


Chemical Analysis of Materials

We conduct investigations, root cause analysis, and countermeasure evaluations for product anomalies and claims to support quality improvement.

Analysis Findings

- Rubber Products: Rubber and additive types, quantities.
- Surface/Interface: Delamination, adhesion, precipitation.
- Environment/Safety: Environmental burdens, emissions.
- Damage: Damage causes, crack progression, deterioration level.
- New Materials: Composition, structure.



Equipment in Possession



Gas Chromatograph - Mass Spectrometer Heated Desorption Gas Chromatograph - Mass Spectrometer Pyrolysis Gas Chromatograph - Mass Spectrometer High Performance Liquid Chromatograph (HPLC) Fourier Transform Infrared Spectrometer (FT-IR) Thermogravimetric / Differential Thermal Analyzer (TGA/DTA) Differential Scanning Calorimeter (DSC) Scanning Electron Microscope (SEM) X-ray Fluorescence Analyzer Ultraviolet-Visible Spectrophotometer Atomic Absorption Spectrophotometer Microwave Sample Decomposition Device Karl Fischer Moisture Meter Ion Chromatograph

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