

Chemical Analysis Services



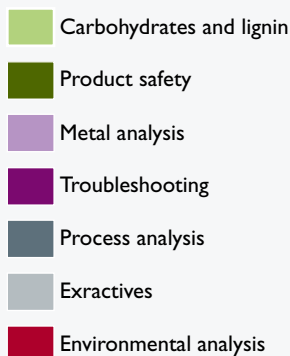
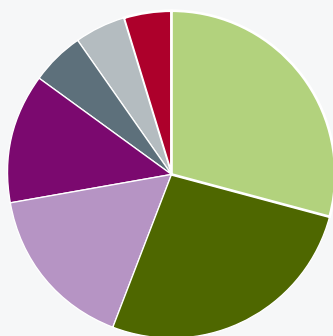
Innventia has experienced staff and advanced equipment for a wide range of chemical analyses, from characterisation of wood and pulp components (e.g. cellulose, hemicellulose, lignin and extractives) to process analysis, environmental analysis and evaluation of materials intended for contact with foodstuffs.

Our vision is to be the natural partner for advanced chemical analysis of wood, pulp, paper, packaging materials, as well as new materials and chemicals.

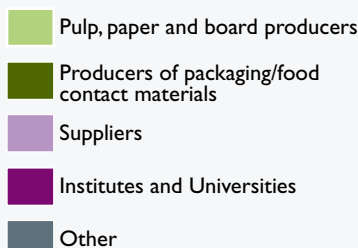
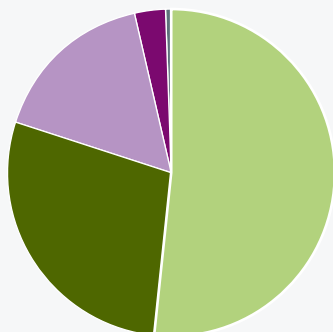
Variety of commissions and customers

In 2008, we performed more than 400 commissions to customers within the fields of pulp, paper, biorefinery and packaging all over the world and to research projects at Innventia.

Commissions



Customers



(Based on order volume 2008)



Chemical analysis services at Innventia

- Process Analysis
- Troubleshooting
- Inorganic Analysis including Metal Analysis
- Carbohydrate and lignin characterisation
- Organic Analysis
- Product Safety Analysis
- Migration tests for plastics and coated paper/board
- Environmental Analysis
- Set-off tests for printing inks
- Interlaboratory Comparison Service

The laboratory is accredited according to ISO 17025 for a number of analyses.

We are also involved in the European standardisation work, and are well updated concerning future legislation. For example, we offer testing in compliance with:

- National regulations (BfR, FDA)
- Council of Europe (Guidelines for Recycled Fibres)
- European directives (e.g. Safety of Toys, Migration testing 97/48/EC)

Contact persons

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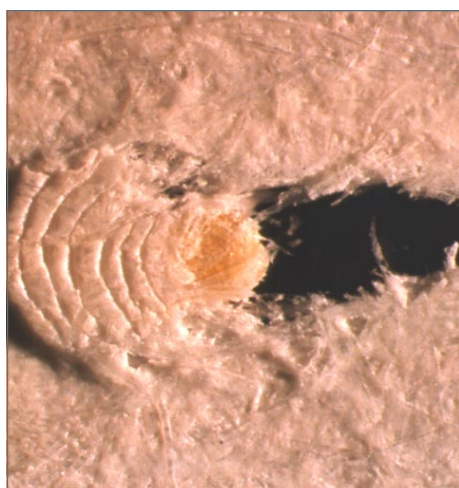
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Examples of provided services

Product safety analysis

Innventia provides complete chemical analysis for product safety. We analyse all kinds of materials that are intended for contact with foodstuffs, e.g. paper, board, plastics and lacquer. Examples of specific analyses:

- Migration tests (EN 1186)
- Optical brighteners and colour (EN 646, EN 648)
- Chlorinated compounds (e.g. dioxins and PCB, PCP, TotCl)
- Metals (e.g. lead, cadmium, chromium, mercury)
- Volatile compounds (e.g. hexanal, terpenes)
- Other contaminants, e.g. DIPNs, HTPP, BADGE, Bisphenol A, primary aromatic amines



Troubleshooting

We normally address these questions using pyrolysis-gas chromatography/mass spectrometry (Py-GC/MS). This provides a detailed and in most cases complete overview of the organic constituents of a sample. If necessary, the analysis is combined with microscopic, microbiological and inorganic analysis.

Contact us about samples such as:

- Additives and process chemicals
- Product control
- Synthetic or natural polymers
- Lignin and wood extractives.

Interlaboratory comparison service

Are your analyses accurate? Interlaboratory comparisons are a convenient way to make sure. Innventia annually organizes interlaboratory calibration tests for a number of chemical analyses used in Pulp, Paper and Packaging applications.

Testing parameters

Pulp and paper

- Acetone soluble matter
- Alkali solubility (S18)
- Ash content
- Metals in pulp
- COD or TOC
- Kappa number
- Organic chlorine
- pH in water extract
- Total content of acidic groups
- Total chlorine
- Viscosity
- Klason lignin and carbohydrates

Effluents and filtrates

- Chlorate
- Complexing agents
- Metals
- Hydrogen sulphide ion concentration
- Residual alkali
- Total Organic Carbon

Paper/board for food contact

- Metals
- Pentachlorophenol
- Diisopropyl naphthalenes (DIPN)
- Formaldehyde in water extract
- Transfer of OBA

To register for one or several parameters, please contact us.

Boosting business with science

Innventia AB is a world leader in research and development relating to pulp, paper, graphic media, packaging and biorefining. We generate, interpret and apply research results to create innovative products and processes. Our science-based way of working allows us, in cooperation with our customers, to enhance all or any of the stages in the innovation chain, from conception to final product, service or process. We contribute thereby to our customers' value creation. We call our approach boosting business with science.

www.innventia.com