

# Research & Development



Research and Development is a core competence of ARTIS and our staff are highly experienced in the development and optimisation of materials, processes, and products.

## Material Development

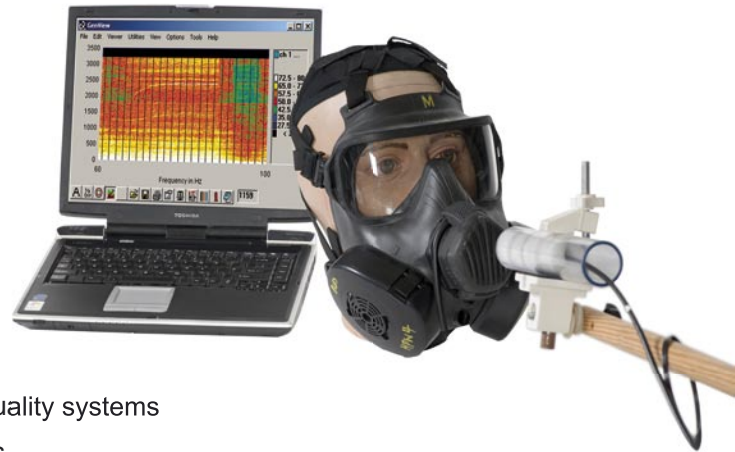
Small scale mixing facilities are ideal for compound optimisation against customer and international specifications. The team at ARTIS can also help with material selection outside the elastomer sector.

- Small scale rubber mixing, other polymeric materials
- Bonding systems
- Statistical optimisation

## Product Development

Major product development programmes require the use of multi-disciplined teams and ARTIS can provide input in many areas, particularly materials expertise.

- Materials selection & manufacturability
- Mechanical design & design data
- Durability & end of life disposal
- Basic statistics and statistics for process control/quality systems
- Data analysis, regression and multivariate analysis
- Basic experimental design



## Test Development

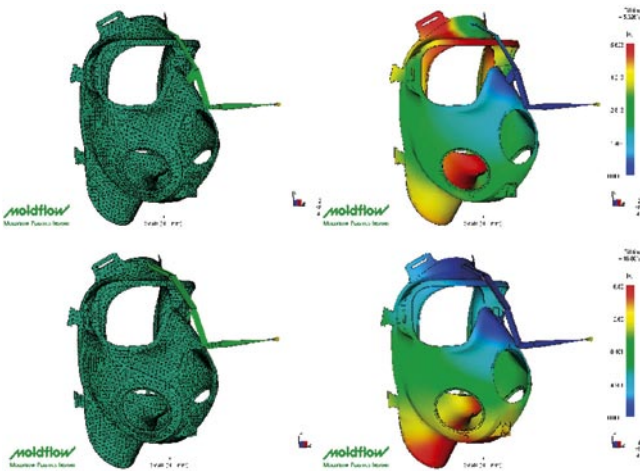
Evaluation of product functionality is crucial to understanding service life. By gaining accurate knowledge of the service conditions a more reliable predictor of performance can often be developed.

- Service stress / strain calculations
- Service environment assessment
- Product functionality evaluation
- Acoustic measurement and spectral analysis

## Engineering Applications

Design of rubber – Fabric composites is part of our heritage and the associated stress strain calculations are often difficult. Using the design and the material together allows stress state optimisation, improving durability and functionality.

- Service stress / strain calculations
- Rubber - cord composites
- Weight reduction & life improvement



## Contract Research

Often the whole development project is bigger than a single company. Industry as a whole can benefit from the results of a well managed project.

- Specific research contracts
- Fundamental investigations
- Joint industry ventures
- Government funded programmes
- Academic co-operation

## Consultancy

Service failures and production problems require a different approach to fundamental investigations. ARTIS has experience in many of these kinds of projects and can offer an efficient and thorough evaluation of the issues.

For further information please contact:

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