Defence Science Institute for Materials and Operating Materials

Technical centre for fibre-reinforced plastics

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

The Defence Research Institute for Materials and Fuels, WIWeB for short, is a public departmental research institute of the Federal Government and is part of the portfolio of the Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support. The tasks of the institute include - Technical support of defence material - Material preservation and damage analysis - Experimental and analytical investigations

The WIWeB operates, among other things, a fibre composite pilot plant, which deals with the: - Production of various test specimens - Modification of the fibre or resin system - Investigation of the physical properties of fibre-reinforced plastics. The focus is on research into topics of relevance to defence technology.

Wehrwissenschaftliches Institut für Werk- und Betriebsstoffe (WIWeB)

Organisation type
Non-university research institution

Sectors
No specific sector

Employees
50 up to 249

Turnover
n/a

Funding
n/a

Institutsweg 1
85435 Erding
Bavaria
Germany
www.baainbw.de/portal/a/baain/start/diensts/wiweb

Main areas covered
Processing of prepregs, Curing via hot air autoclave, Wet lamination process, Modification of the resin system, Creation of sample and test specimen

Infrastructure

Certifications

Keywords

Memberships

Defence Science Institute for Materials and Operating Materials

Technical centre for fibre-reinforced plastics

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Consulting, Testing and trials, Prototyping, Validation, Simulation, Technology transfer, Maintenance and repair	✓		
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis, Destructive analysis, Non-destructive analysis			✓
Modelling and simulation Loads & stress, Life-cycle analysis, Optimisation, Materials	✓		
Plant construction & automation			
Recycling technologies			

Defence Science Institute for Materials and Operating Materials

Technical centre for fibre-reinforced plastics

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Manufacturing process			
Additive manufacturing 3D printing, Fused deposition modeling, Selective laser melting (SLM, LPBF, ...), Selective laser sintering (SLS), Stereolithography	✓		
Coating (surface engineering) Galvanising, Painting, Plasma process, Powder coating, Sputtering	✓		
Fibre composite technology Manual lamination, Resin infusion process, Pre-preg processing, Vacuum infusion	✓		
Forming			
Joining Adhesive bonding, Sewing, Screwing, Welding	✓		
Material property alteration Heat treatment			✓
Primary forming			
Processing and separating Drilling, Turning, Milling, Electrical discharge machining, Honing, Sawing, Shearing/punching, Grinding, Cutting			✓
Textile technology Textile surface treatment and finishing, Others (Application-related problem solving, optimisation and prototype production)	✓	✓	

Defence Science Institute for Materials and Operating Materials

Technical centre for fibre-reinforced plastics

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites			
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

Machine translation

This organisation has been machine-translated based on data provided in German.

Mr Marc-Jeffrey Hinnemann

marcjeffreyhinnemann@bundeswehr.org