



BASF Forward AM

Ultrasim® 3D Service Portfolio

Engineering Services and Digital Solutions

More than just material

“We enable our customers to develop innovative applications by providing engineering services and digital solutions around our BASF Forward AM material portfolio”

Ultrasim® 3D Service Portfolio


1 Ultrasim® 3D Services

2 Ultrasim® 3D Software


3 Ultrasim® 3D Consulting



Ultrasim® 3D Lattice Design



Ultrasim® 3D Cost Analysis (TCO)



Ultrasim® 3D Simulation (FEA)



Ultrasim® 3D Sustainability Analysis (LCA)



Ultrasim® 3D Lattice Engine



Virtual Engineering

Starter	Premium	Enterprise
Lattice Design Service	Foam Replacement	Full Engineering

Starter	Premium	Enterprise
Single Cost per Part	Cost Benchmarking	AM Cost Tool

Starter	Premium	Enterprise
Raw Material Data	3D Simulation	Material Model as a Service

Starter	Premium	Enterprise
Material LCA	Part LCA Service (CO2)	Become a Partner

Software			Add-On
Free Demo	Single User	Enterprise User	Lattice Test Pad

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- ❑ Lattice structures open exciting product design possibilities that would be previously considered unmakeable. With our entry offer we make those easily accessible for any company.

- ❑ We help to understand the cost structure of 3D printed parts, what drives costs and how this compares to other AM technologies.

- ❑ Speed up the engineering process, shortens the testing phase, and increases confidence in part performance using a digital twin of parts.

- ❑ Our deep material and process knowledge allows us to run precise Life Cycle Assessments and assess the environmental impact.

- ❑ Benefit from our years of lattice design and testing by using this tool to create your lattice in minutes.
- ❑ Mechanical property overview in our lattice library
- ❑ Lattice Pad for a hands-on experience

- ❑ We support from ideation to CADx, testing, prototyping until scale up for years experience in all 3D-printing technologies.

- ✓ Different levels of lattice services to enable customers a fast lane into foam replacement.

- ✓ Different levels of services, to provide customers a fast lane into commercial understanding of AM.

- ✓ Different levels of simulation support, to enable digital twins of 3D-printed parts based on Ultrasim material models

- ✓ Different levels of live cycle assessment (LCA) to provide a detailed environmental footprint of material and part production.

- ✓ From foam properties to lattice in only 3 steps using our large library of mech. properties and a one-click lattice design tool.

- ✓ Consulting service for advanced and individualized support in AM.

Any Questions?

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