



# Evonik Introduction

November 2025

# Evonik in figures

## FINANCES

**€15.2**  
billion

in sales generated by our company in the 2024 fiscal year.

**€2.1**  
billion

was our adjusted EBITDA in 2024, with a corresponding EBITDA margin of 13.6%.

## BUSINESS

**9,200**  
products

in our portfolio – from ABIL® to NANOPOX® and ZETASPERSE®.

**104**

production locations

ensure close proximity to customers and markets, whether in North America, South America, Europe or Asia.

## INNOVATION

**21,400**  
patents

stand for Evonik's innovative spirit. Our first patent dates back to 1882/83.

**€459**  
million

invested in our company's research and development activities in 2024.

## PEOPLE

**32,000**  
employees

represent 110 nations. Plenty of potential to develop tailor-made solutions for every market in the world.

**60%**  
women

on our executive board – no other company in the DAX or MDAX has a higher proportion.

# Evonik operates in five country clusters across Asia Pacific

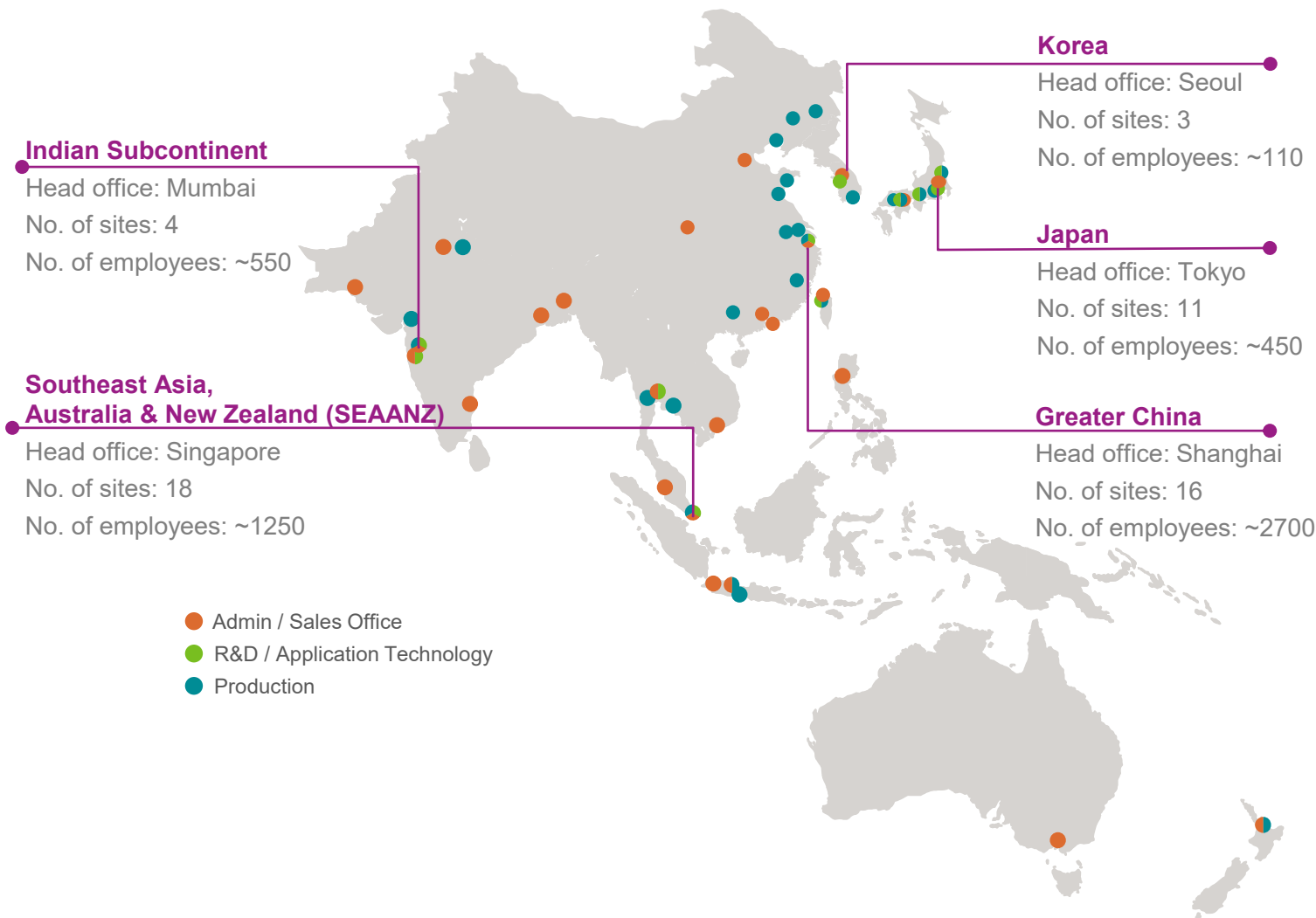
## Evonik Asia Pacific at a glance

Sales: ~20% of group sales

~ 5,000 employees

51 sites, active in 24 countries

Asia Pacific management hub in Singapore



# Evonik for Aerospace & Defense Industry

**We Go Beyond – To Protect What Matters**

**Website:**

<https://www.evonik.com/en/company/aerospace-and-defense.html>

Feb 2026 | Contact: [defense@evonik.com](mailto:defense@evonik.com)



# Our Approach for the Defense Industry

As a reliable partner for advanced materials, enabling high-performing solutions for defense industry

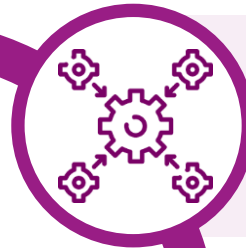
## In-depth Know-How Expertise

Partnering with Evonik means gaining access to our experienced teams' and portfolio of advanced materials & technologies for defense products.



## Integrated Solutions

Beyond materials, we offer technical expertise & collaborative development to accelerate innovation and shorten time-to-market



## Superior Performance

Our innovations help protect what matters, with superior performance to enable our partners to meet toughest & demanding military specifications



## Trusted & Reliable Supply Chain

Choosing Evonik means partnering with a trusted European supplier that ensures compliance & reliability.



# Our Proven Solutions for Aerospace & Defense

Wide range of system solutions; from lightweighting, performance plastic to energetic materials...

## ① Lightweight Materials



Reduce weight without compromising strength. Advanced polymers & composite materials enable lighter aircraft, vehicle & drone, improving fuel efficiency & operational range.

### Examples & Applications:

- ❑ Foam-cores **ROHACELL®** & **ROHACRYL®** for lightweighting and radar-transparent radomes
- ❑ Unidirectional-tape **VESTAPE®** for composite component
- ❑ Thermoplastic (**VESTAMID®**, **VESTAKEEP®**) & thermoset (i.e. **COMPIMIDE®**) for structural integrity.

### Benefits:

- ✓ Weight reduction for enhanced mobility
- ✓ High impact resistance & fatigue performance
- ✓ Design flexibility for complex geometries

## ② Plastics for Extreme Conditions



Defense operations require materials that withstand heat, cold, chemicals, & mechanical stress. Evonik offers polymers & additives for components exposed to harsh environments.

### Examples & Applications:

- ❑ UAV structures & fighter-jet component (**P84®**, **VESTAMID®**)
- ❑ Protective coating for vehicles & naval platforms (e.g. **TEGO®**, **DYNASYLAN®**)
- ❑ AM-material **INFINAM®** for decentralized production

### Benefits:

- ✓ Thermal stability up to extreme temperatures
- ✓ Resistance to temp., corrosion, abrasion, & chemicals. Reliable performance in desert, arctic, & maritime conditions

## ③ Energetic Materials



Evonik provides raw materials for rocket propellants, supporting propulsion systems, e.g. hydroxy-terminated polybutadiene (HTPB), diisocyanates (IPDI, TMDI), concentrated H<sub>2</sub>O<sub>2</sub> (up to 98%).

### Examples & Applications:

- ❑ Enabling solid propellants for boosters with hydroxy-terminated polybutadiene (**POLYVEST®**) & various diisocyanate (**VESTANAT®**)
- ❑ Hybrid and liquid propellants (**PROPULSE®**) for space missions

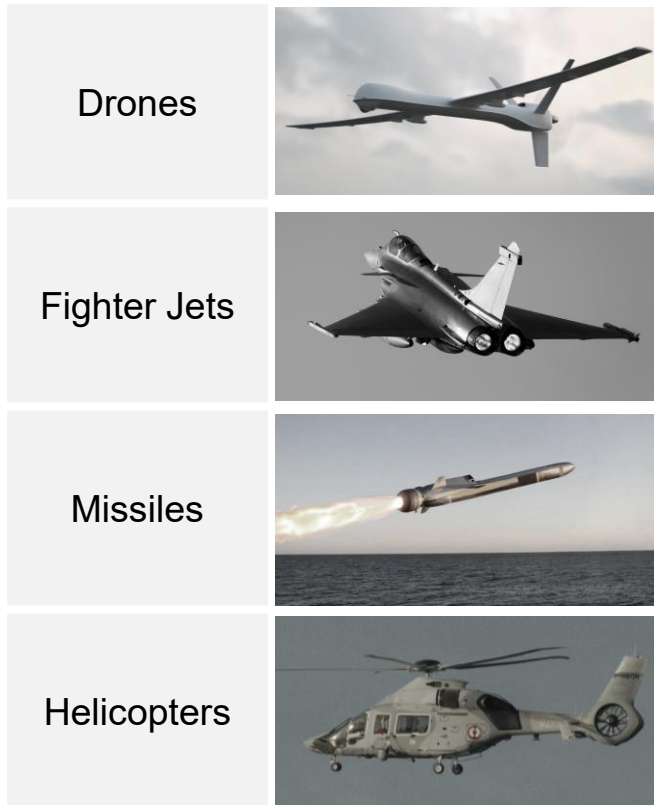
### Benefits:

- ✓ Stable supply chain (made in Germany/Europe with full backward integration)
- ✓ High energy density for superior performance
- ✓ Full backward integration for supply security

# ① Lightweight Materials

Performance-foams provides ROHACELL® sheet, block & shape to produce composite components

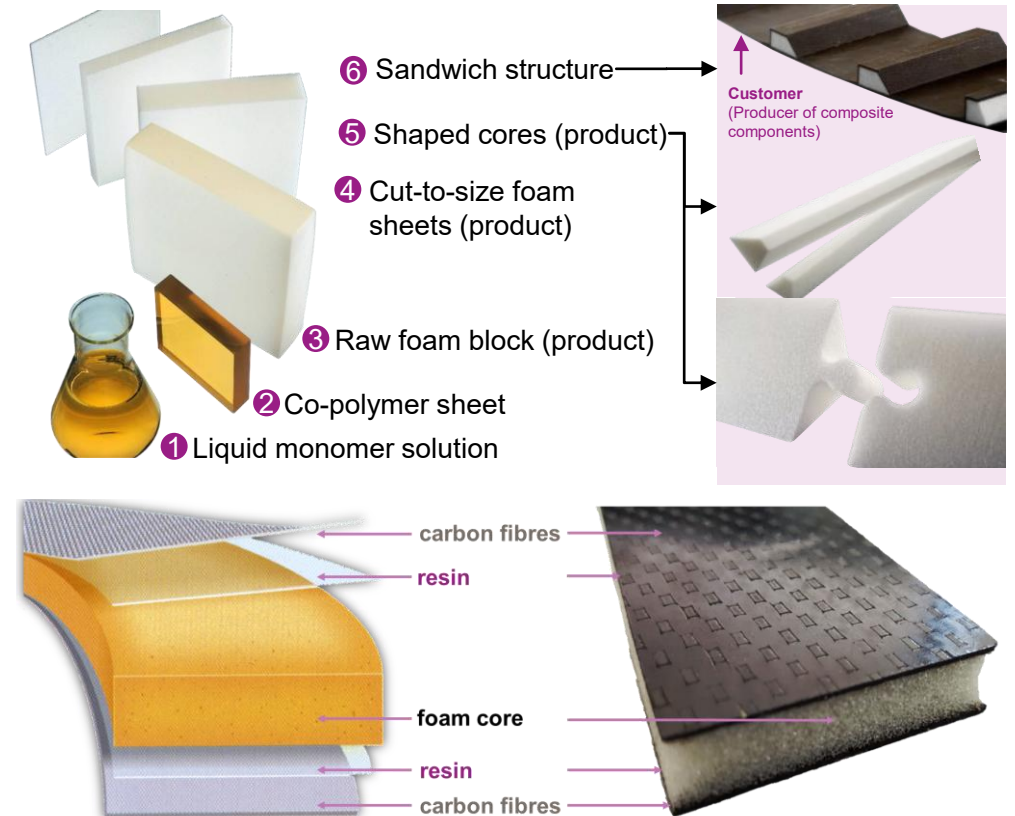
## Application



## Typical Component

- Fuselage
- Landing gear doors
- Wings
- Radomes/Antennas
- Fairing
- Leading Edges
- Trailing Edges
- Propellers
- Rotor Blades
- Electromagnetic-shielding (Stealth Applications)

## Performance ROHACELL® Foams



Sandwich technology → Weight reduction + excellent mech. properties

# Appendix 1. Battle of Technologies: Direct Comparison of Monolithic Composites with Honeycomb & ROHACELL® Sandwich Composites

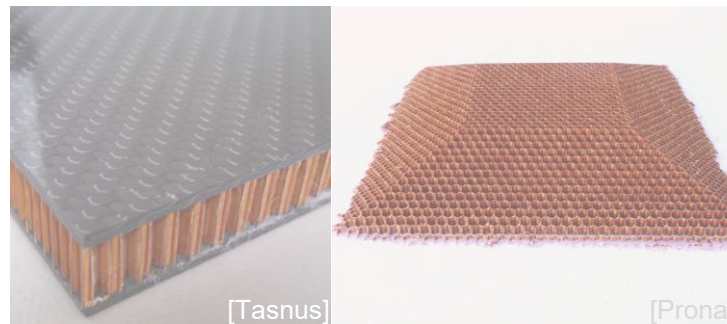
## Monolithic Composites

- + Flat and complex geometries
- + Material combinations (fiber, resin)
- + Production systems
- Bending properties
- Design freedom



## Honeycomb Sandwich

- + Flat and large lightweight parts
- Material combinations (fiber, resin)
- Production systems
- + Bending properties
- Design freedom



## ROHACELL® Sandwich



- + Complex lightweight geometries
- + Material combinations (fiber, resin)
- + Production systems
- + Bending properties
- + Design freedom



## Appendix 2. Pushing the boundaries of what is possible with ROHACELL®:

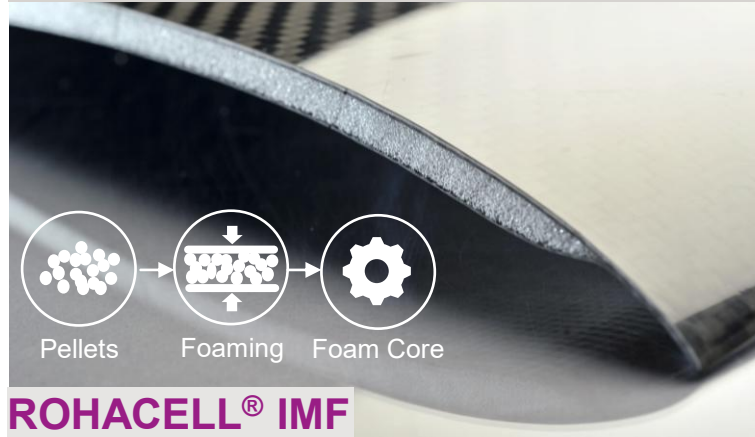
Advanced technologies today for tomorrow's defense

### STEALTH: Mastering the Art of Detection Avoidance



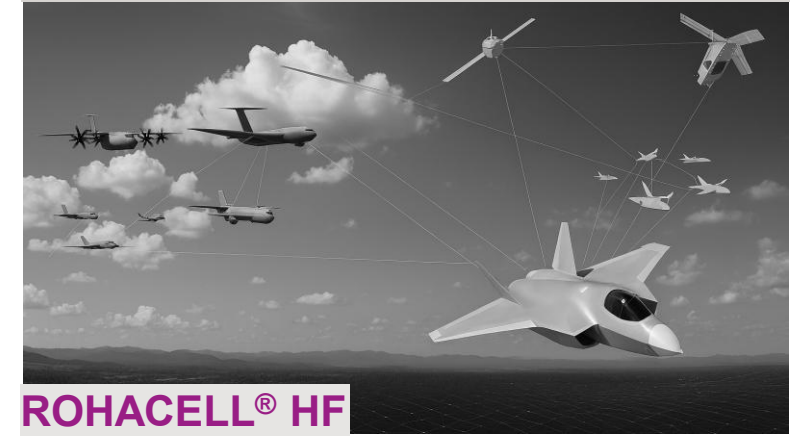
- Radar signature reduction
- Custom solutions for Top Industry Players to push stealth capabilities beyond current limits

### SCALABLE MANUFACTURING: Minimizing time to mass production



- Mission critical ramp up to mass production
- Function integration

### CONNECTED COMBAT: Ensuring Electromagnetic Superiority



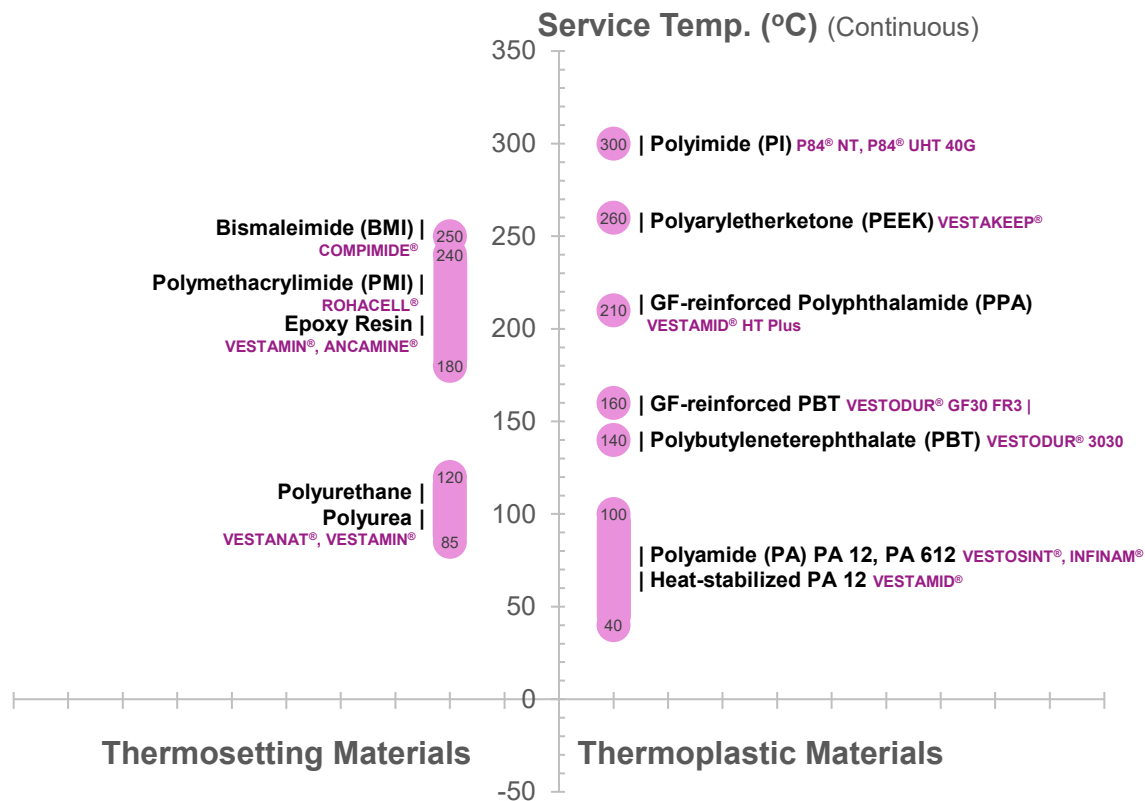
- Enables maximum RF transparency
- Real-time data exchange across platforms

Innovating Today to Secure Tomorrow's Freedom

## ② Plastics for Extreme Conditions

Evonik offers polymers & additives for components exposed to harsh environments

### Overview of High-Performance Polymer/Composite:



### Selected Examples:

#### Lightweight & Strong Tape



Thermoplastic unidirectional tapes (UD tapes) where carbon fibers are impregnated with polyether ether ketone (PEEK) / polyamide 12 (PA12)

- ✓ Several layers of UD tapes (laminates) can outperform mechanical properties of metal sheets (same thickness).
- ✓ Possibility of arranging the reinforcing fibers in load direction.
- ✓ Laminates can be thermoformed to give a variety of component geometries.
- ✓ Parts can be overmolded with short- or long-fiber reinforced compounds

#### Freeform (Additive) Manufacturing

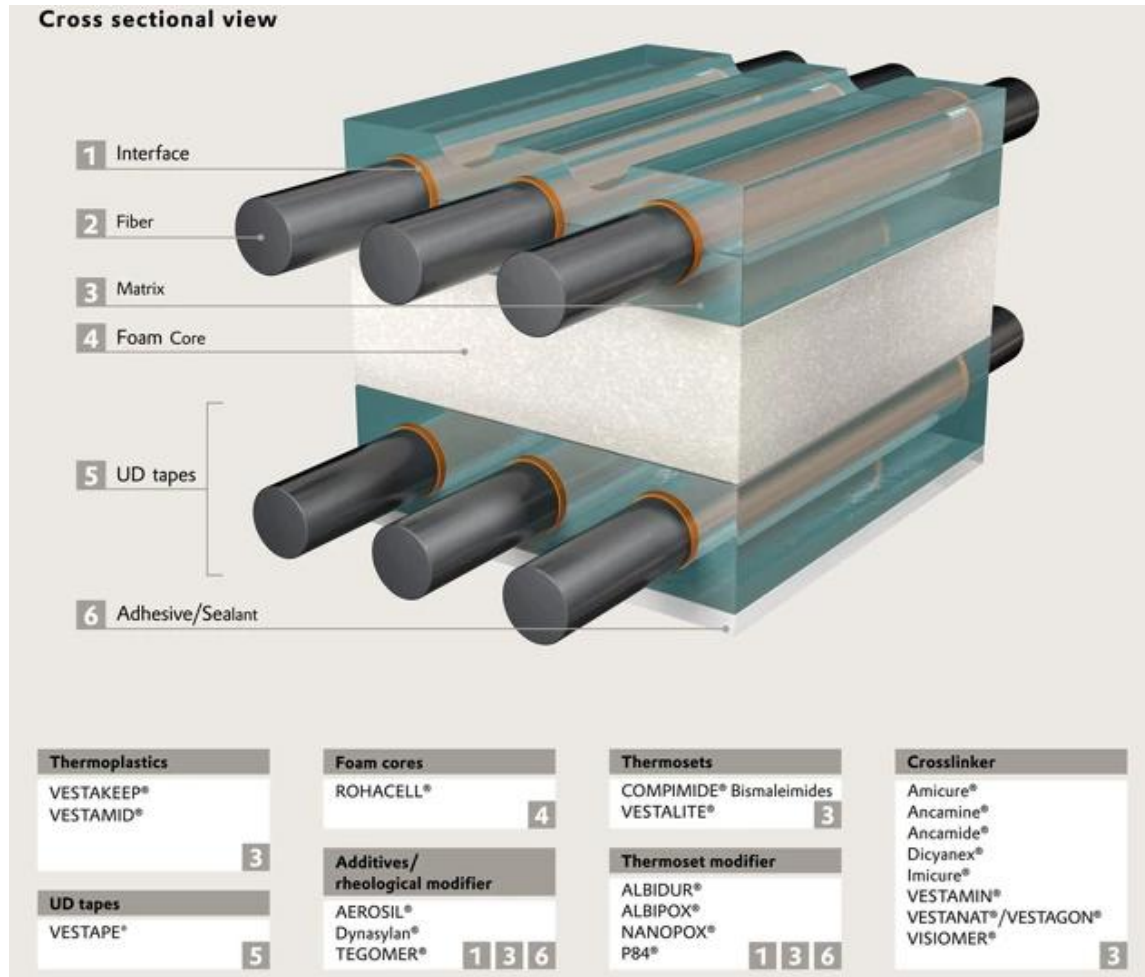


Sustainable 3D printing at scale with INFINAM® (nylon powder & PEEK filament)

- ✓ A wide range of nylon powders, elastomers, and PEEK filaments for industrial 3D printing application.
- ✓ INFINAM® PA12 ready-to-use materials are the gold standard in powder bed fusion technologies.
- ✓ 3D-printable biomaterials to manufacture medical device parts designed for temporary and permanent body contact.

# Appendix 3. Evonik Product Range for Composite Structures

Evonik composite specialists are closely connected to each other across respective business-lines



## Our products are

### Additives/ Rheological Modifiers

- AEROSIL® fumed silica - viscosity/thixotropic agent
- SIPERNAT® precipitated silica to reduce gel coat porosity in filled UPE products
- Dynasylan® silanes - Additives for glass fiber & windmill bonding products, improved adhesion promotion & crosslinking
- TEGOMER®

### Crosslinkers

- VESTAMIN® diamines - High performance amines for epoxy composite systems
- VESTANAT® polyisocyanates for light-stable PUR coatings
- VESTAGON® crosslinkers for thermosetting powder in mold coatings
- VISIONER® methacrylate monomers for UPR and VE matrices

### Foam Cores

- ROHACELL® polymethacrylimide foam core for sandwich structures

### Tapes

- VESTAPE® unidirectional glass and carbon fiber

### Thermoplastics (Resins for thermoplastic matrices)

- VESTAKEEP® PEEK
- VESTAMID® HTplus PPA
- VESTAMID® Terra biobased PA
- VESTAMID® PA12
- TROGAMID® transparent PA

### Thermosets

- COMPIMIDE® bismaleimides - High-performance resins for advanced composites
- VESTALITE® epoxy curing agents and PUR resin formulations for automotive lightweight solutions

### Thermoset Modifiers

- ALBIDUR® - Cost-performance efficient core shell tougheners
- ALBIPOX® - Rubber toughened epoxy resins
- NANOPOX® reactive resin modifiers - Nanosilica in epoxy resins
- P84 polyimide powder - BMI resin modifier

# Evonik Portfolio for Adhesive Materials

Key building blocks from Evonik needs to be fully formulated with other components for final application

Type of Adhesives

| Type        | 1K Epoxy                                                                                                    | 2K Epoxy                                                                                                                 | 2k MMA                                                                                                          | 2step Acrylic                                                                                                         | 2K PU                                                                                                           | 1K PU                                                                                                                         | SMP                                                                                                                            | Silicone                                                                                                         |
|-------------|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Performance | <ul style="list-style-type: none"> <li>Highest Strength</li> <li>Chemical &amp; Temp. Resistance</li> </ul> | <ul style="list-style-type: none"> <li>High Strength &amp; Toughness</li> <li>Chemical &amp; Temp. Resistance</li> </ul> | <ul style="list-style-type: none"> <li>Plastic Bonding</li> <li>Impact Resistance</li> <li>Fast Cure</li> </ul> | <ul style="list-style-type: none"> <li>Very Fast Fixture</li> <li>Easy to Use</li> <li>Versatile Toughness</li> </ul> | <ul style="list-style-type: none"> <li>Fatigue Resistance</li> <li>Multi-susbtrate</li> <li>Low Cost</li> </ul> | <ul style="list-style-type: none"> <li>Elasticity</li> <li>Fast Fixture</li> <li>Multi-substrate</li> <li>Low Cost</li> </ul> | <ul style="list-style-type: none"> <li>Elasticity</li> <li>Gap-filling</li> <li>Multi-substrate</li> <li>Non-hazard</li> </ul> | <ul style="list-style-type: none"> <li>High Temp. Resistance</li> <li>Elasticity</li> <li>Gap-filling</li> </ul> |

Suitable for Rigid Bonding

Increase Stiffness

Increase Elasticity

Suitable for Elastic Bonding

Adhesive Formulation\*

|                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Epoxy/Amine Competency:</b> <ul style="list-style-type: none"><li>▪ ANCAMINE® - cycloaliphatic amine</li><li>▪ ANCAMIDE®, SUNMIDE® - amidoamines, polyamides</li><li>▪ AMICURE®/DICYANEX® - dicyandiamide(DICY)</li><li>▪ IMICURE® - imidazole</li><li>▪ VESTAMIN® - amine</li><li>▪ VESTANAT® - isocyanate</li><li>▪ VESTAGON® - polyisocyanate adduct</li><li>▪ SILIKOPON® - silicone-epoxy hybrid resin</li></ul> | <b>(Meth)acrylate- Competency:</b> <ul style="list-style-type: none"><li>▪ VISIOMER® - methacrylate, methacrylamide</li><li>▪ POLYVEST® - polybutadiene (methacrylated)</li><li>▪ DEGACRYL® - methacrylate copolymer</li></ul>                                                                            | <b>Polyurethane Competency:</b> <ul style="list-style-type: none"><li>▪ VESTANAT® - isocyanate</li><li>▪ VESTAMIN® - amine</li><li>▪ DABCO®, POLYCAT® - amine catalyst</li><li>▪ KOSMOS® - metal catalyst</li></ul> | <b>Silane- / Silicone- Competency:</b> <ul style="list-style-type: none"><li>▪ Polymer VS/RV – vinyl-terminated PDMS</li><li>▪ VQM – vinyl functionalized QM resin compounds</li><li>▪ DYNASYLAN® - silane &amp; silane-modified polymers.</li></ul> |
| <b>Adhesion Promoter</b> , selected products from: <ul style="list-style-type: none"><li>▪ VISIOMER®</li><li>▪ NOURYBOND®</li><li>▪ DYNASYLAN®</li><li>▪ TEGO®</li></ul>                                                                                                                                                                                                                                                | <b>Binder / Fillers / Rheological Modifier:</b> <ul style="list-style-type: none"><li>▪ AEROSIL® - fumed silica (filler)</li><li>▪ SIPERNAT® - precipitated silica (filler)</li><li>▪ Nanocryl®, Nanopox® - nanosilica dispersion</li><li>▪ Albidur®, Albipox® - toughener (silicone particles)</li></ul> |                                                                                                                                                                                                                     | <b>Other Additives:</b> <ul style="list-style-type: none"><li>▪ TEGO® Antifoam – defoamer</li><li>▪ SURFYNOL®, DYNOL® - wetting agent</li><li>▪ Accelerator, Latent Hardener</li></ul>                                                               |

\* non-exhaustive list

