



# THE POWER OF NANO

March 2026



# DEVELOPMENT, APPLICATION & PRODUCTION

## nanoSaar AG

- Strategy & Corporate Development
- Customer / Partner Relations
- Finance & Legal / IP

## nanoSaar CASE GmbH

- Application
- CASE Analytics
- Marketing & Distribution

## nanoSaar Lab GmbH

- Research & Development
- Products and Processes

## nanoSaar Production GmbH

- Technology Upscaling
- Production

# OUR PLATFORMS

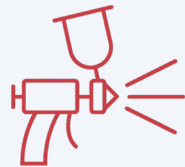
Formulation



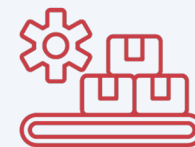
Technology



Application



Production



# NEW NANO-FORMULATIONS

## Paints & Coatings

- BaSO<sub>4</sub>
- CaCO<sub>3</sub>
- Wax
- SiO<sub>2</sub>

## Fillers

- BaSO<sub>4</sub>
- Co(OH)<sub>2</sub>
- ZrO<sub>2</sub>
- CaCO<sub>3</sub>

## Concrete

- CSH
- Ca(OH)<sub>2</sub>
- BaSO<sub>4</sub>
- Wax

## Corrosion Protection

- Zn<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>
- Ca<sub>3</sub>(PO<sub>4</sub>)<sub>3</sub>
- Ba<sub>3</sub>(PO<sub>4</sub>)<sub>3</sub>

## Biocides

- Zn(OH)<sub>2</sub>(CO<sub>3</sub>)
- Tebuconazole
- ZnMoO<sub>4</sub>
- Ag NP

## Crop Science

- Metamitron
- DFF / IFT
- Fluopyram

## Flame Retardants

- Mg(OH)<sub>2</sub>
- THPC
- Al(OH)<sub>3</sub>

## Diagnostics/Magnetic

- FeO<sub>x</sub> SPION
- FeO<sub>x</sub>
- SiO<sub>2</sub>

## Precipitation Seeds

- TiO<sub>2</sub>
- Al(OH)<sub>3</sub>
- ZrO<sub>2</sub>

## Medical Applications

- BaSO<sub>4</sub>
- Zn<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>

## Catalyzers

- CaCO<sub>3</sub>

## Miscellaneous

- SiO<sub>2</sub>
- Polymerisation

# FOCUS ON CONTINUOUS FLOW TECHNOLOGIES

MicroJetReactor MJR®



# LAB DEVICES FOR PRODUCT DEVELOPMENT



- Output of up to 30 liters per hour
- Versatile unit: used for precipitation, emulsification and encapsulation tasks in R&D phase
- Micro gear pumps with high-precision flow rates



- Maximum output of 80 liters per hour
- High-pressure applications of up to 210 bar
- Homogeneous thermal control up to 250°C
- Thermally supported chemical processes, melting processes, matrix encapsulations, and emulsifications

# FROM SCALE-UP TO LARGE-SCALE PRODUCTION

Scale-Up Device



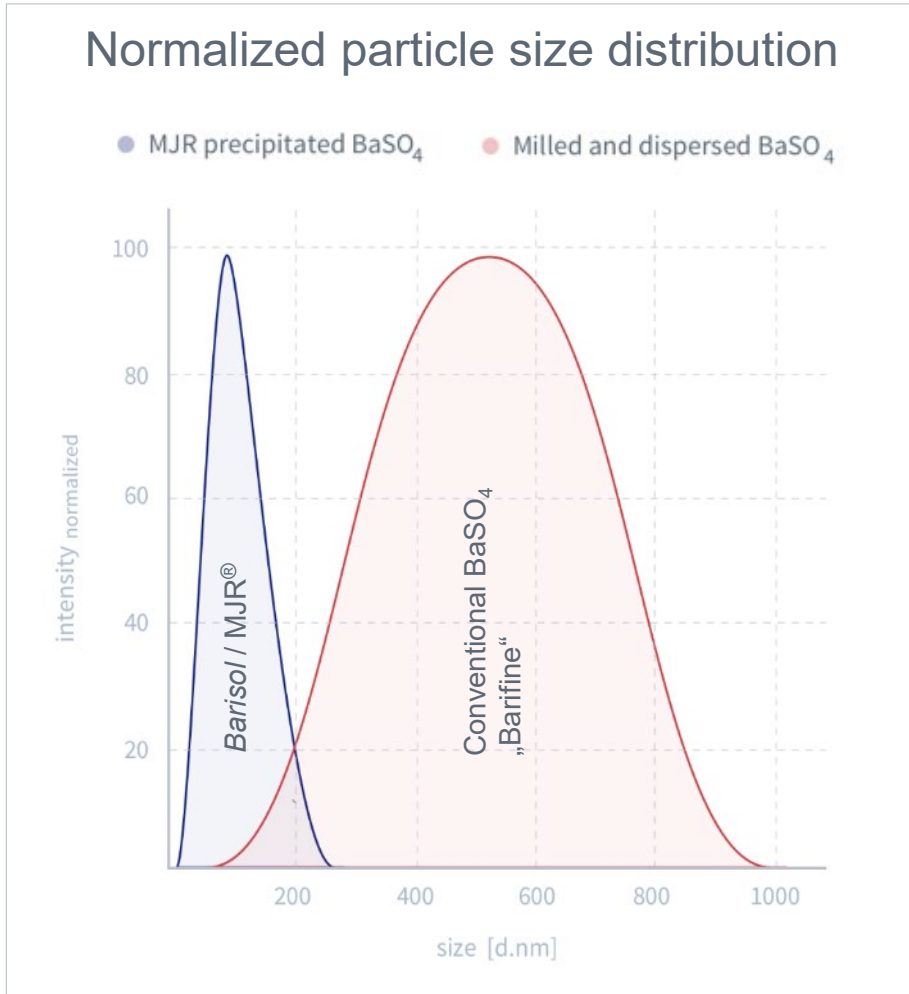
- Highly flexible upscaling device
- Siemens-based control software ensures full compatibility with existing production environment
- Highly adjustable for a wide range of industrial, cosmetic and nutritional applications

Production Machine



- Maximum throughput of 600 liters per hour (easily scalable by parallelization)
- Siemens-based control software ensures full compatibility with existing production environment
- Highly adjustable for a wide range of industrial, cosmetic and nutritional applications

# DISRUPTIVE ADDITIVE FOR PAINTS & COATINGS



## Business Case Barisol BR 100

- Use of solid particles as spacers
- Application versatility
- Overall cost reduction up to 50 %
- Reduction of Microplastics
- IP granted

# ADVANCED ADDITIVES FOR PAINTS & COATINGS

## nanoSaar CASE BR 100: Advanced Additive for Water-Based Colorants



Boosts performance in professional paint manufacturing with:

- ✓ **Enhanced Stability** across pH range
- ✓ **No Viscosity Impact** – smooth flow, anti-settling
- ✓ **Lower Dispersant Need** – cost-efficient & durable
- ✓ **Preserved Gloss & Color** in exterior use
- ✓ **Deep, Vibrant Blacks** with bluish undertone
- ✓ **Easy to Integrate** – low viscosity formulation

## nanoSaar CASE SL 100: Advanced Additive for Solvent-Based Clear Coatings



Boosts performance in professional coating systems with:

- ✓ **Improved Abrasion Resistance** – long-lasting protection
- ✓ **Excellent Compatibility** – easy post-addition in solvent systems
- ✓ **Preserved Clarity & Gloss** – no optical compromise
- ✓ **Cost-Effective** – premium performance at lower cost
- ✓ **Ideal for Automotive & Architectural Use** – durable showroom finish



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