

THE POWER OF NANO

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TEAM OF EXPERTS IN NANOTEC BUSINESS



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WE OFFER DEVELOPMENT AND PRODUCTION SERVICES

nanoSaar AG

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

nanoSaar Lab GmbH

- Research & Development
- Products and Processes

nanoSaar Production GmbH

- Technology Upscaling
- Production

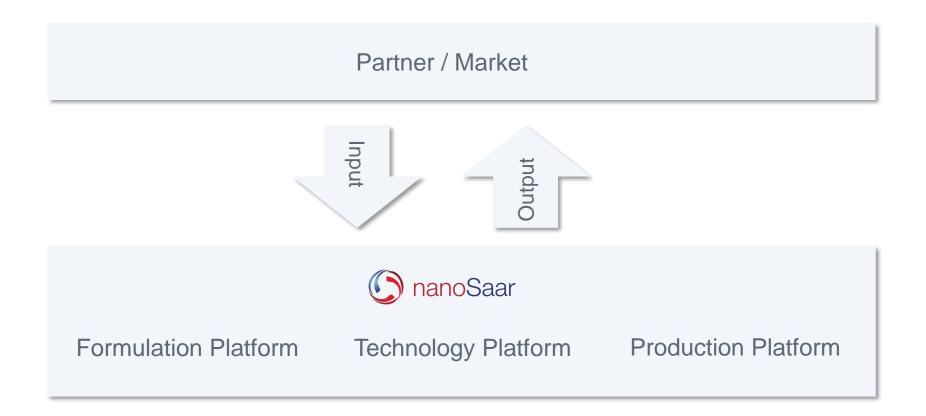


LEADING PROVIDER OF SUSTAINABLE SOLUTIONS





WE CREATE SOLUTIONS FOR OUR PARTNERS





NEW FORMULATIONS FOR OUR PARTNERS

| Precipitation Seeds TiO₂ Al(OH)₃ ZrO₂ | Corrosion Protection - $Zn_3(PO_4)_2$ - $Ca_3(PO_4)_3$ - $Ba_3(PO_4)_3$ | Paints & Coatings - BaSO ₄ - CaCO ₃ - Wax - SiO ₂ |
|---|--|--|
| Biocides – Zn(OH) ₂ (CO ₃) – Tebuconazole – ZnMoO ₄ – Ag NP | Concrete – CSH – Ca(OH) ₂ – BaSO ₄ – Wax | Fillers - $BaSO_4$ - $Co(OH)_2$ - ZrO_2 - $CaCO_3$ |
| Flame Retardants - Mg(OH) ₂ - THPC - AI(OH) ₃ | Crop Science – Metamitron – DFF / IFT – Fluopyram | Medical Applications – BaSO ₄ – Zn ₃ (PO ₄) ₂ |
| Diagnostics/Magnetic – FeO _x SPION – FeO _x – SiO ₂ | Catalyzers – CaCO ₃ | Miscellaneous SiO₂ Polymerisation |



CONTINUOUS FLOW TECHNOLOGY FOCUS

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



SOLUTIONS BECOME PRODUCTS



Paints & Coatings Pigment stabilizing additive



Concrete acceleration Concrete additive for higher compression strengths



Nanoscaled biocides for controlled release and reduced environmental stress



Wax dispersion Additives for a variety of protective and decorative coating applications



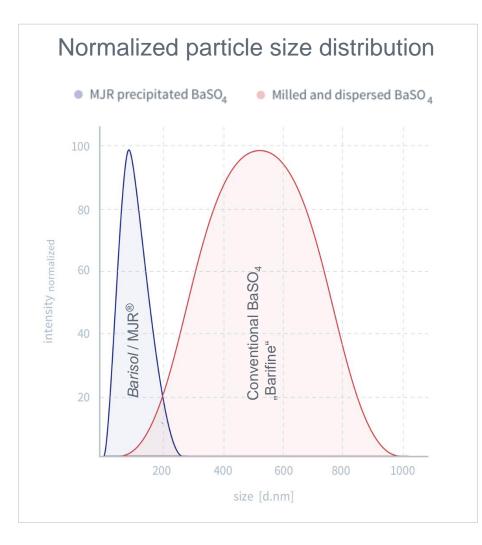
Non-conductive coating additive Electrically isolated pigments for coatings



Fungicidal seed protection Seed treatment dispersion



DISRUPTIVE ADDITIVE FOR PAINTS & COATINGS



Business Case Barisol

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



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