

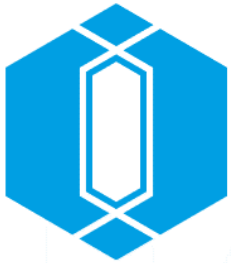


An introduction

Your contract manufacturer for the specialty chemicals,
pharmaceuticals and cosmetic intermediates

Our services

At a glance



Synthesis



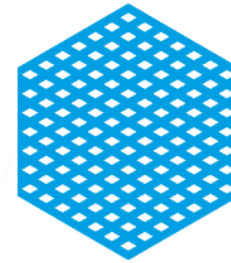
Drying



Mixing /
Blending



Grinding



Sieving /
Screening



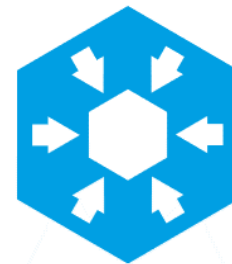
Pastillation



Packaging



Analysis



Compacting



Extrusion

Corporate history

More than 20 years of growth



1998

Business formation
Site Lorsch



2001

Site Oberthal



2009

Site Dieburg



2011

Site Bensheim

ProChem stands for quality

Certificates



Certifications

- We work according to the highest quality standards
- Based on our certified integrated management system



DIN EN ISO 9001:2015
(Quality management)



DIN EN ISO 14001:2015
(Environmental management)



DIN EN ISO 50001:2011
(Energy management)



DIN EN ISO 45001:2018
(Work safety management)



EFFCI GMP



Initiatives

- We pursue the principles of an ethical, social and sustainable economy



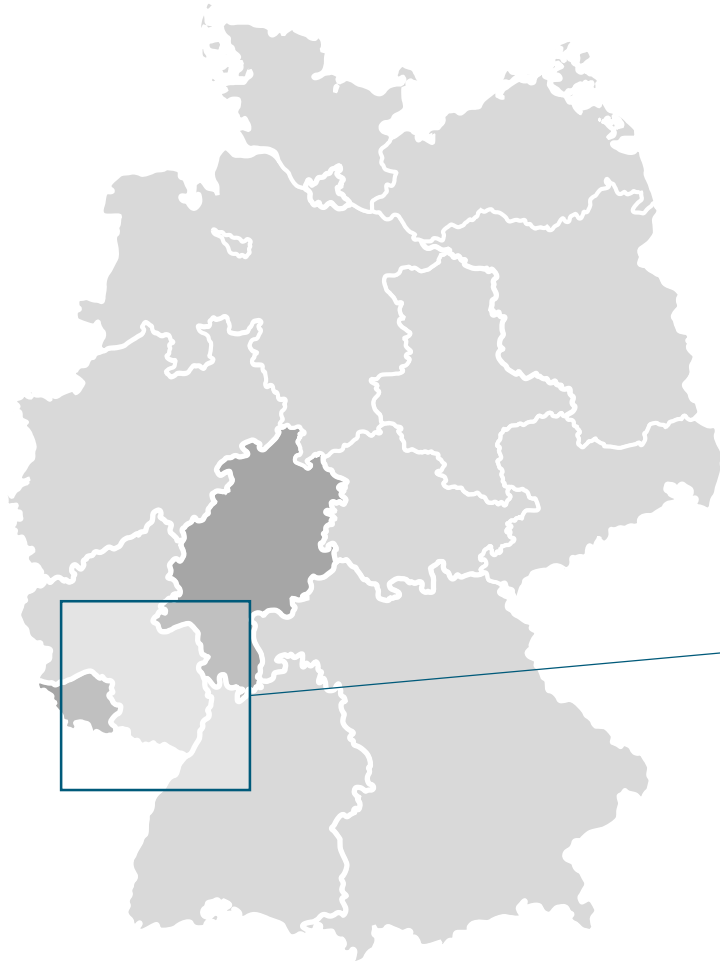
Member



Silver Status

Our sites

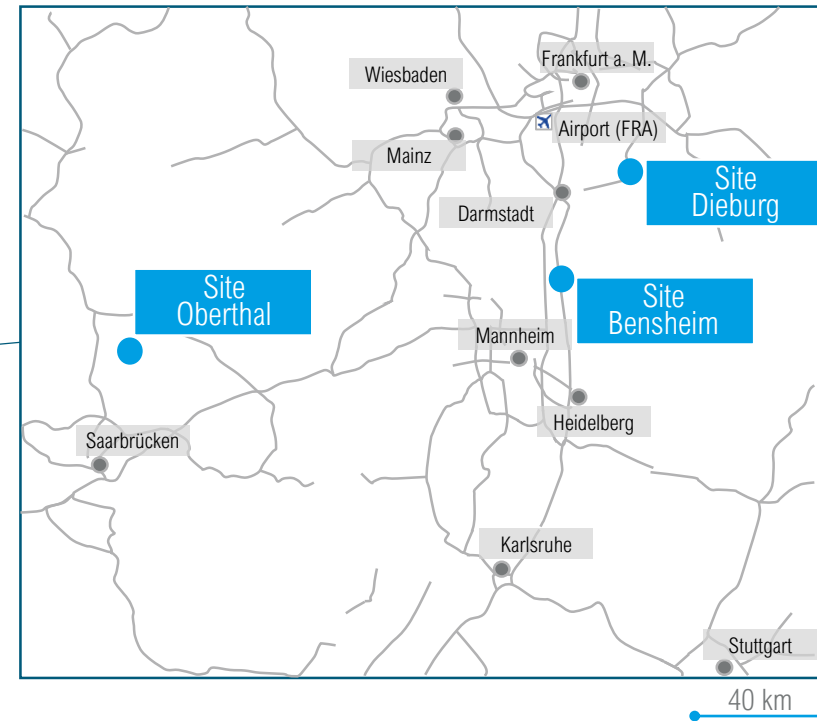
In the center of Europe



3 Sites



150 employees



Our sites

Oberthal



2001



Headquarter of ProChem GmbH



Plot area: > 30.000 m²

Building footprint: ca. 5.000 m²

Storage capacity: > 2.500 m²

On-site technology:



Synthesis



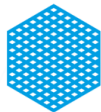
Drying



Mixing /
Blending



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Analysis



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Extrusion



Gewerbegebiet Wallfeld 12-14
66649 Oberthal (Saarland)



Our sites

Oberthal



Gewerbegebiet Wallfeld 12-14
66649 Oberthal (Saarland)

Our sites

Dieburg



Industriestrasse 19-21
64807 Dieburg (southern Hesse)



2009



Manufacturing of complex specialty chemicals and cosmetic intermediates
in ton quantities / more than 100 production permits



Plot area: 22.150 m²
Building footprint: 6.529 m²

On-site technology:



Synthesis



Drying



Mixing /
Blending



Grinding



Sieving /
Screening



Pastillation



Packaging



Analysis



Compacting



Extrusion



Our sites

Dieburg



Industriestrasse 19-21
64807 Dieburg (southern Hesse)

Our sites

Bensheim



2011



Plot area: 28.737 m²

Building footprint: 12.936 m²

On-site technology:



Synthesis



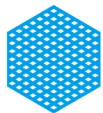
Drying



Mixing /
Blending



Grinding



Sieving /
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Pastillation



Packaging



Analysis



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Extrusion



Berliner Ring 9
64625 Bensheim (southern Hesse)



Our sites

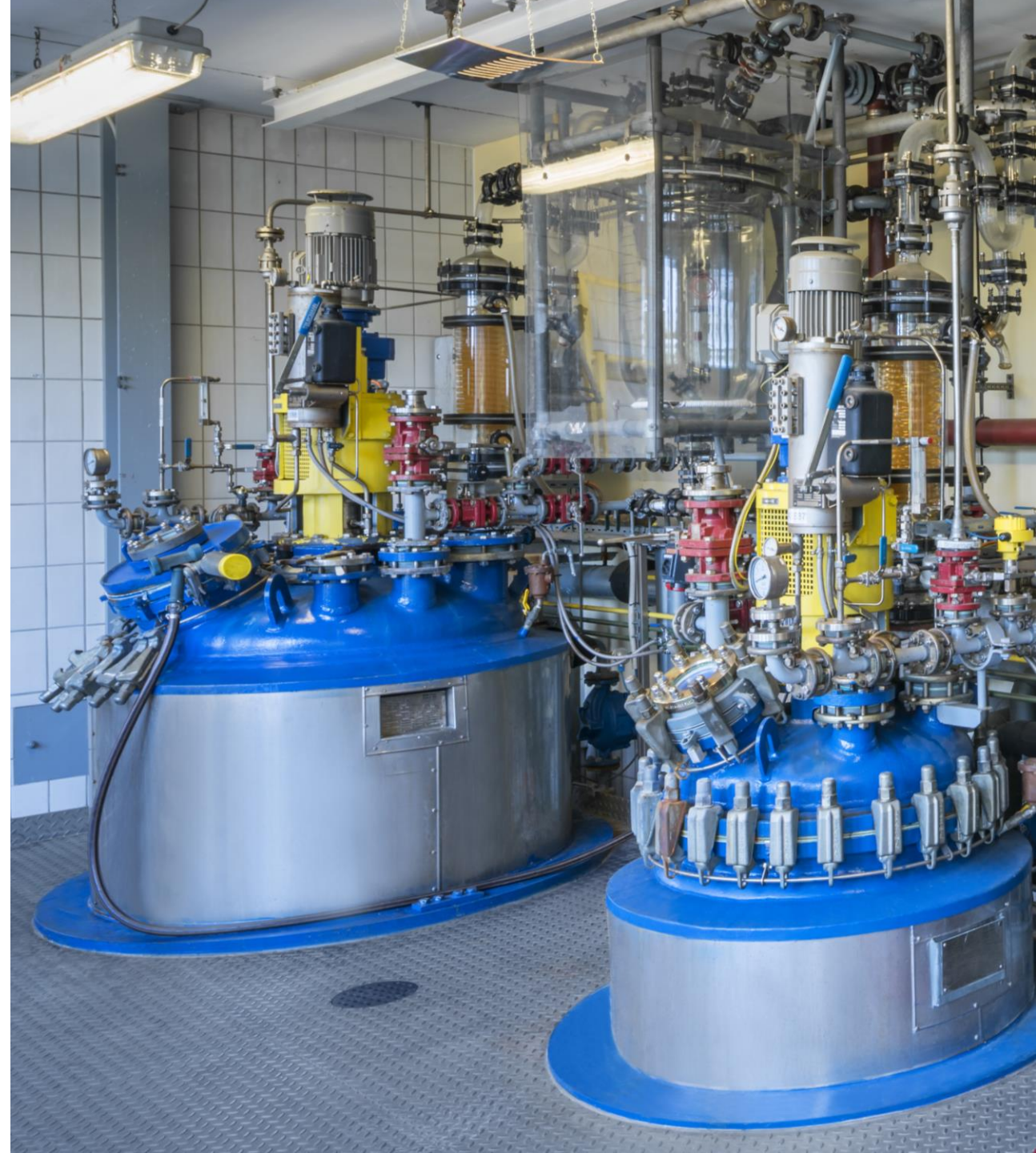
Bensheim



Berliner Ring 9
64625 Bensheim (southern Hesse)

Custom syntheses

On ton scale



Syntheses

From laboratory to ton scale



Our key competence is to transfer your lab synthesis to ton scale and to adopt your process to our equipment

Syntheses

From laboratory to ton scale



Method transfer in the laboratory

- 120 m² research lab space:
 - Glass reactors up to 10ℓ & 2ℓ autoklave
 - Automated Hanna titration devices
 - Gas chromatographs (also with headspace technology)
 - Viscometer & UV/VIS-Photometer
 - Thermobalances for thermogravimetric analysis



Piloting facility

- Carry out of Scale-up trials
- Process verification for transfer from lab to pilot scale
- Distillation column in the process laboratory Technikum with 25 theoretical plates and 120 ℓ volumer



Custom synthesis

- Modularly structured production facility
- Reactors in stainless steel and glass-lined steel with capacities up to 20.000 ℓ
- Large portfolio of chemical reactions that can be executed by our equipment
- Overhead distillation possible at numerous reactors



Process technology

Site Dieburg



- 1.640 m² warehouse for solids
- Cooling capacity down to -20°C with glycol
- Waste water treatment with light liquid separator and indirect discharger
- Exhaust incineration
- Pressure swing adsorption plant (N₂)
- Groundwater well
- 6 bar steam



Heating & exhaust fume incineration



Redundant nitrogen supply (70 m³/h)



Storage tanks for raw materials

Contract drying

We provide suitable technology
for any drying project



Drying

Our equipment



Vacuum dryers

- Capacities up to 12.000ℓ
- Paddle, inclined position and tray dryer



High temperature dryers

- Tray dryer with 6 stainless steel cabinets
- Bogie hearth furnace (500 ceramic crucibles)



Spray dryers

- Pilot scale spray tower (Oberthal)
- 2 spraying towers with cyclone (Bensheim)



Conical dryers

- Capacities: 1.000 and 2.500ℓ Finished with enamelled steel

Contract mixing

Precise control of all parameters



Mixing

Our 19 mixing units



Equipment types

- Horizontal mixer
- Conical mixer
- Container mixer

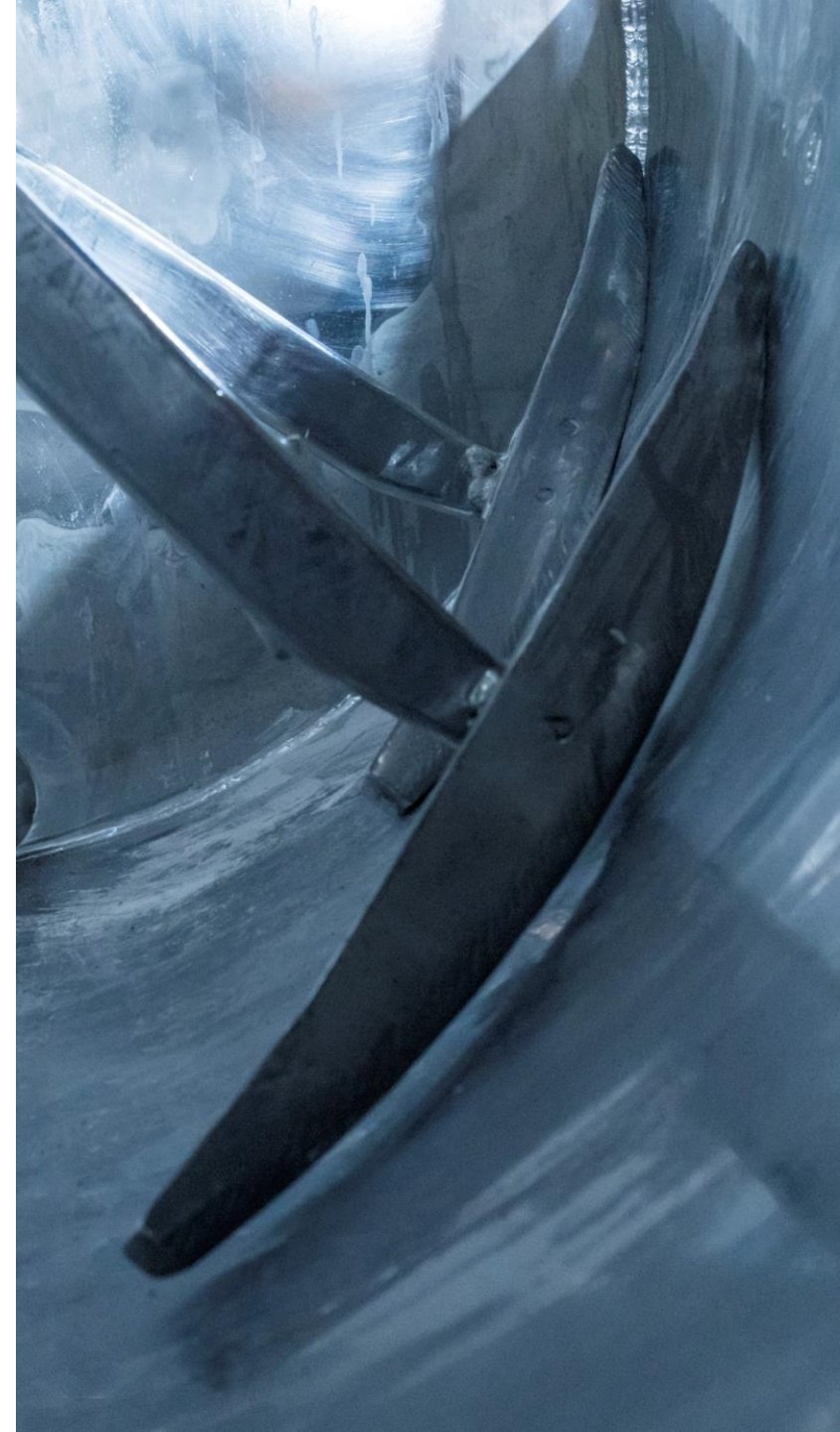


Volumes

- Laboratory: 5 ℓ
- Pilot plant: 50 ℓ & 120 ℓ
- Production: 300 ℓ - 12.000 ℓ



- ATEX heating chambers
- Coating of powder or granulate mixtures



Contract grinding

We provide the grinding
technology you need



Grinding

Our technology portfolio



Technologies

- Fluidised bed opposed jet mill
- Spiral jet mill
- Classifier mill
- Pin mill
- Cutting mill
- Sieve mill
- Hammer mill
- Impact beater mill
- Annular gap bead mill
- Agitator bead mill
- Pre-crushing / crusher



Jet mill AFG 630

- Fluidised bed opposed jet mill
- Comminution is exclusively the result of interparticle collision
- All-ceramic sight wheels / Pipelines with PU coatings

Contract screening

Optimizing granulometry



Screening and analytics

Our technology portfolio



Screening mills

- Tumbler screening machines
- Ultrasonic screening machines
- Air jet sieves
- Screening mills
- Sieves with diameters up to 200 cm



By changing different screening liners we can do product-specific screening for particle sizes from >5 mm to 20 µm



Analytics of solid materials

- Particle size distribution
- Bulk density measurement
- pH determination
- OH number
- Flowability
- Melting point
- Viscosity
- Refractive index

Further services

Pastillation
Compacting
Packaging



Further services

Overview



Pastillation

- Inclusion of active ingredients in pastilles, pellets oder coarse plates
- Advantages:
 - More simple dosage of powder and liquids
 - Dust-free and easier to handle



Compacting

- Transformation of powder or fiber mixtures into granules
- Advantages :
 - Dust-free
 - Flowable
 - Easy to dose



Packaging

- Screw feeder packer, turbopacker or other packing machines
- We assemble and package :
 - Bags
 - Valve bags
 - Drums
 - Cartons
 - Bigbags



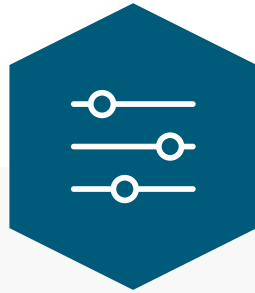
ProChem as an outsourcing partner

Your benefits



Quality

We offer extensive expertise in quality management, environmental protection, energy efficiency and sustainability



Flexibility

From small quantities up to the production of several hundred tons
—
We realize your project without long lead times



Performance

Due to modern process engineering and our highly trained employees, we are able to implement complex processes for you



Confidentiality

We guarantee strict confidentiality with regard to your formulations and production know how

ProChem on the web

Stay in touch with us

Visit:
www.prochem-gmbh.de



And on LinkedIn:
www.linkedin.com/company/prochem-gmbh



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