

# Coating

Process chemistry for a brilliant performance



COATING

## Zeller+Gmelin

### The brand with the clear plus

Zeller+Gmelin is a medium-sized, international manufacturer of lubricants, printing inks and chemicals. The company with its head office in Eislungen/Fils was founded in 1866.

With 16 subsidiary companies and many partners, we are well connected throughout the world and deliver our high-quality products to more than 80 countries.

We have understood and solved your problems for more than 150 years and will continue to do so in the future. This is how we create a tangible plus for our customers.

Because we understand the customer and develop solutions – reliably, flexibly and tailor-made.

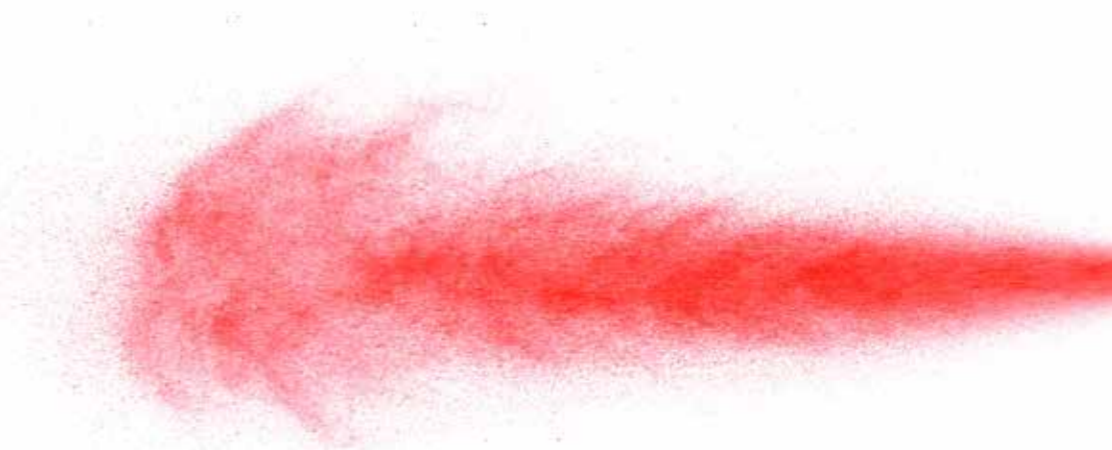
The business unit Coating stands for sustainability and efficiency in the coating process. We supply holistic solutions in the areas of water treatment, purge fluids and pre-treatment.

# Coating

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Please take a look at the current MSDS for all products offered.  
The MSDS are always available on demand.





Business unit

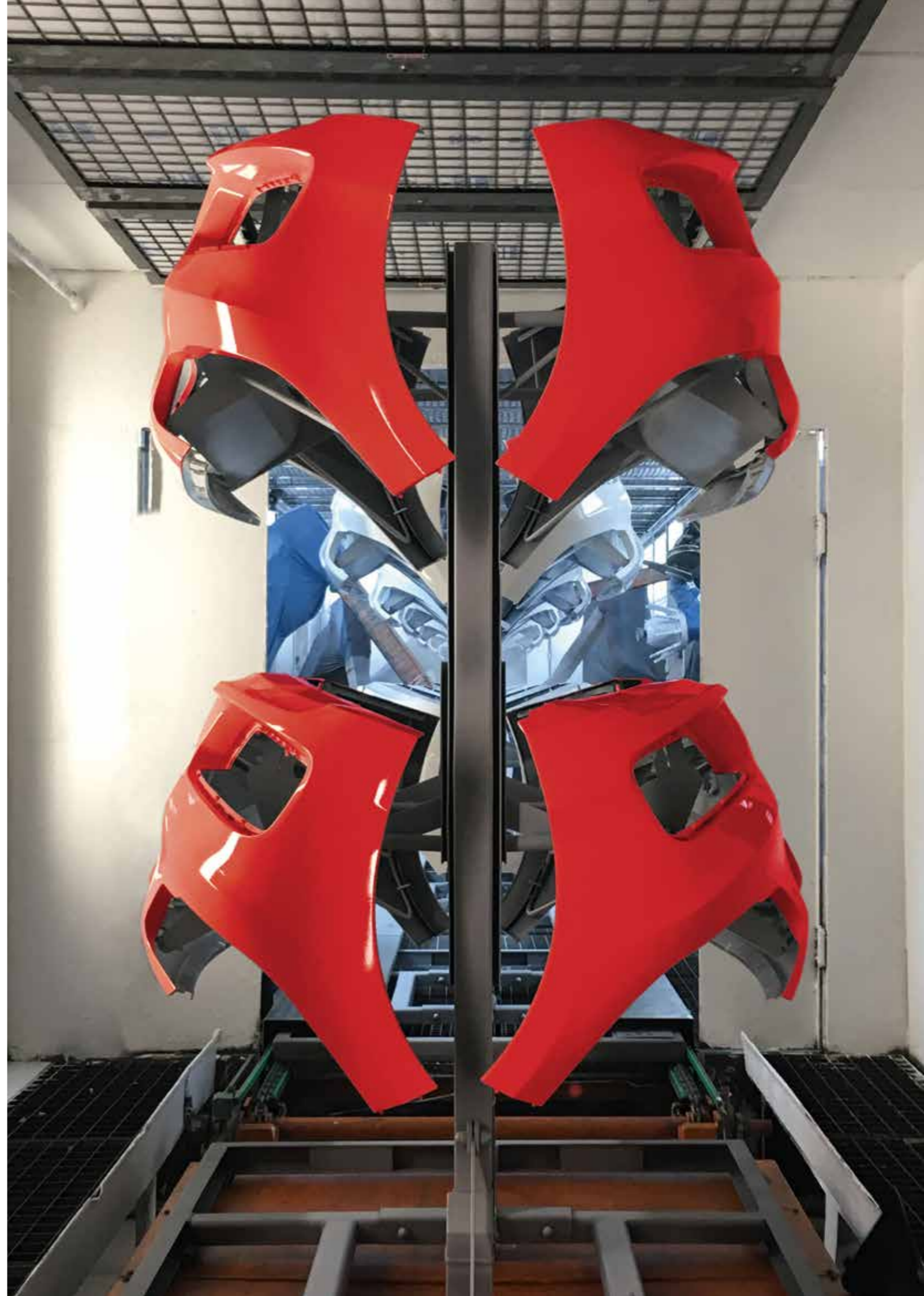
## Coating

# COA

The business unit Coating stands for process-specific products in the coating process, which were developed under the aspects of sustainability and economic efficiency.

Whether it is water treatment, surface treatment, purge fluids or maintenance, care and repair - we create tailor-made products and processes for your coating system. Most likely we are working with one of our customers at this very moment to develop an innovative solution for his task.

The big advantage for you: research and development, production and on-site service from a single source. Our employees combine experience, application knowledge and creativity in a compact and experienced team. This ensures short distances, minimum reaction times and a high degree of flexibility. In this way, we increase the safety and quality of your processes and ensure that you achieve your economic goals precisely and efficiently. At Zeller+Gmelin, customer orientation already begins at our own laboratory for research and development.



# Powerwash System

## Energy saving in powerwash systems

Powerwash systems have proven their worth for cleaning and pretreating plastic parts. In these, the plastic parts are treated with an aqueous cleaning solution through spray cleaning at temperatures of usually 45 to 70 °C. The majority of the energy is needed to heat up the process baths!

The relatively high temperatures are necessary to remove the soiling and keep the baths low-foaming. A considerable amount of energy is required to heat up the cleaning bath accordingly and to keep it at process temperature! Reducing the bath temperatures can lead to major energy savings in the pretreatment process.

## Effective – with the right chemistry

With our Divinol spray cleaner, we have developed a process-stable cleaner that achieves the required surface cleanliness at reduced bath temperatures!

### Properties + Advantages

- + Very good cleaning behaviour of plastics
- + Reduction of bath temperature to room temperature
- + Low foaming
- + High biostability
- + Low evaporation losses and thus reduction of fresh water consumption
- + Reduction of machine start-up times. The lead time for heating up is omitted.
- + Service or cleaning activities can be carried out more quickly, as no cooling times have to be waited for

## Drainage aid

Divinol Quick-Rinse for regulating the run-off behaviour of the water of plastic surfaces.

### Product examples:

- + Divinol Spray Cleaner
- + Divinol Quick-Rinse



# Paint booth

## Cleaning of the application equipment

Divinol HPT Cleaner and Divinol SPT Cleaner as VOC-reduced or VOC-free solvent- or water-based purge fluid for cleaning the application equipment.

## Protecting the application equipment

With our Technical Vaseline, you protect all relevant parts of your application technology.

## Lubricating

Divinol lubricating greases are high-quality lubricating greases for a wide range of applications in the paint shop.

### Product examples:

- + Divinol HPT Cleaner
- + Divinol SPT Cleaner
- + Technical Vaseline
- + Divinol Lubricating Greases





# Venturi Washout System

## Water treatment

For optimal water treatment, we offer an extensive range of products under the Divinol brand for circulation and system water treatment for water-bearing coating systems.

### Your advantages:

- + Excellent detackifying properties
- + Low application quantities
- + Consumption-optimised coagulants
- + Optimally adapted defoamers
- + Longer cleaning intervals
- + Increased water service life
- + Reduction of disposal costs

## Efficient paint coagulation in series production painting

### Divinol Koag

Divinol coagulation agents completely remove the paint overspray in your system and support flotation or sedimentation depending on the coating.

### Divinol defoamers

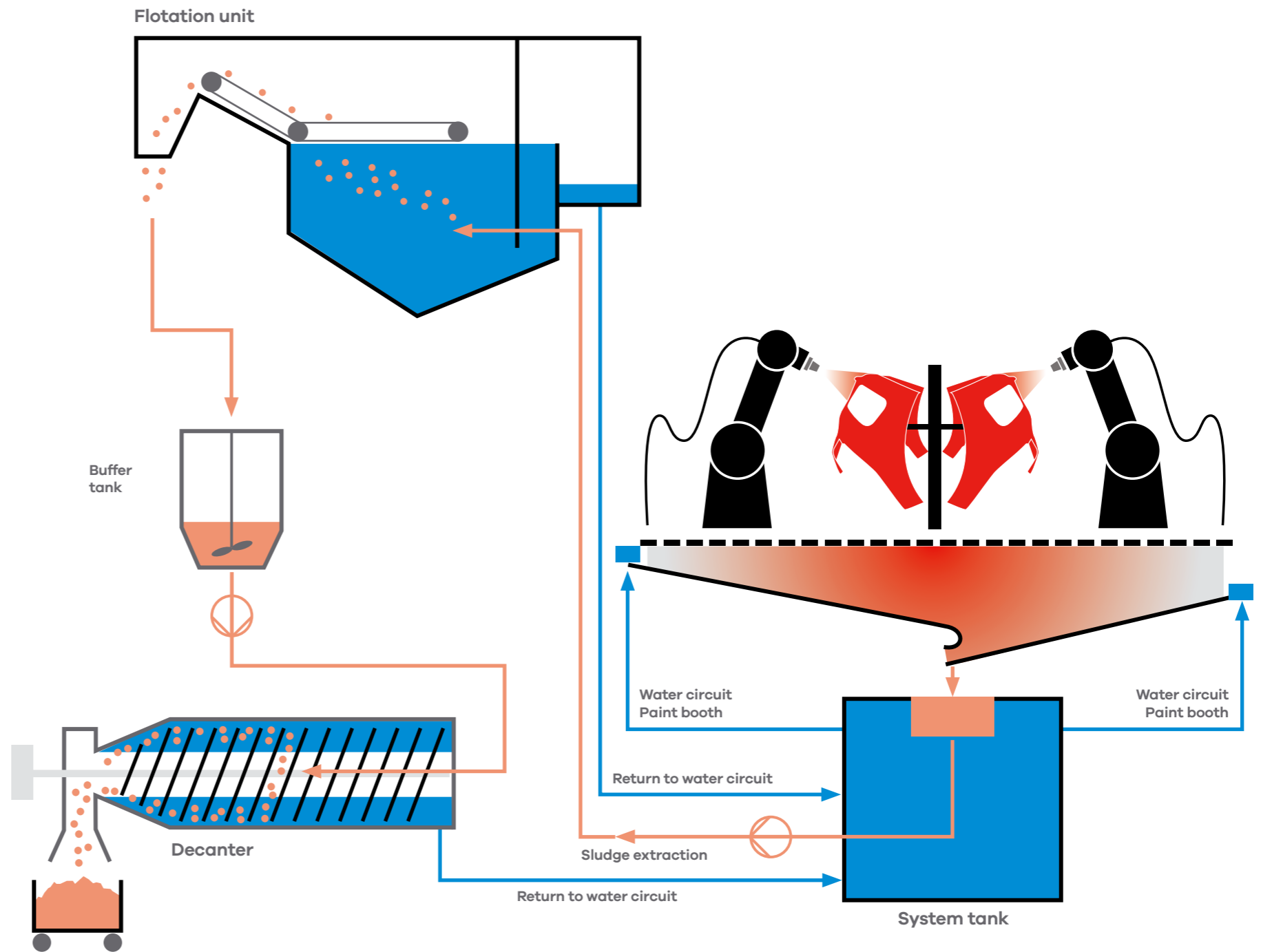
Divinol defoamers are used in conjunction with Divinol coagulants to for the defoaming of water-sprinkled coating systems.

### Divinol flocculants

Divinol flocculants are used in combination with Divinol coagulants especially for the coagulation of hydro paints. The flakes produced during use are generally of coarse structure and can be easily separated by filtration, sedimentation or centrifugation.

### Product examples:

- + Divinol Koag
- + Divinol Defoamer
- + Divinol Flocculant



# Service Paint Booth

We offer an extensive range of environmentally friendly and efficient products for metal and plastic cleaning. The cleanliness of parts in the painting process is a key requirement for achieving good adhesion. That is why we always work in close contact with automotive, plastics and paint manufacturers.

## Equipment cleaning

Divinol paint stripper and degreaser for surfaces and floors, including skids.

## Plant care

Divinol stripping lacquers and dust-binding lacquers for paint shops are used to protect against paint adhesion caused by overspray or against dust particles.

## Cabin greases

Divinol cabin greases are used as water-resistant protective coatings for cabin walls, grating supports and much more.

## Product examples:

- + Divinol Parts Cleaner
- + Divinol Phosphating Agents
- + Divinol Quick-Rinse
- + Divinol System Cleaner
- + Divinol Paint Stripper and Degreaser
- + Divinol Stripping Lacquers
- + Divinol Cabin Greases









# Injection moulding machine

## Lubrication and maintenance

Divinol hydraulic oils for lubrication of the hydraulic part of the system and Divinol lubricating greases for lubricating the relevant parts of the injection moulded part and mould clamping part, so that they work with low wear despite high temperatures.



## Product examples:

- + Divinol Hydraulic Oils
- + Divinol Lubricating Greases





# Pre-treatment

## Cleaners and drainage aids

For the effective and efficient pre-treatment or cleaning of plastic parts, Zeller+Gmelin offers you a wide product range of spray cleaners, pre-cleaners and bath conditioning agents as well as water drainage aids, system cleaners, products for manual parts cleaning and protective coatings for plastic surfaces.

### Spray cleaners

Divinol spray cleaners are used for degreasing metal parts and cleaning plastic parts, e.g. for mould release agent removal in single and multi-chamber spraying systems.

### Manual pre-cleaners

Manual pre-cleaners are acidic, neutral and alkaline products on an aqueous and water-dilutable basis for the manual pre-cleaning of plastic parts in preparation for the subsequent painting process. The manual pre-cleaners are needed if no Powerwash system is available or if parts are extremely dirty after outdoor storage.

### Drainage aid

Divinol Quick-Rinse water drainage aids are additives for regulating the run-off behaviour of water from plastic surfaces. The water drainage aid prevents water spots after drying as well as craters during painting.

### System cleaning

Acidic or alkaline Divinol system cleaners disinfect and remove slime deposits and remove coatings on heat exchangers.

### Cleaners for manual parts cleaning with HD equipment

Acidic and alkaline Divinol parts cleaners are perfect for a wide range of applications in high-pressure cleaning equipment.

### Product examples:

- + Divinol Spray Cleaners
- + Divinol Parts Cleaners
- + Divinol Quick-Rinse

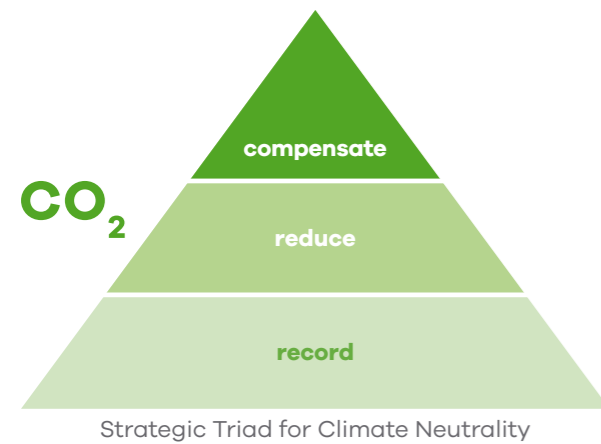




# Sustainability

Zeller+Gmelin stands for healthy and sustainable growth. This means acting in a socially and ecologically responsible manner. The conscientious use of resources and responsibility towards future generations are central components of the company's philosophy. For years, we have been successfully working on reducing our ecological footprint and, since January 2020, we have been allowed to call ourselves the first chemical company in Baden-Württemberg to do so. "climate-neutral site" since January 2020. In an extensive project, we determined the CO<sub>2</sub> balance at the Eisingen site.

The principle of the triad of the Kyoto Protocol was applied (1997/2005):



In the medium term, ZG wants to gradually reduce its CO<sub>2</sub> compensation payments, increase the share of renewable energies in its supply and continue to invest in the energy efficiency of its sites. In the long term, we also aim to sell CO<sub>2</sub>-neutral products to our customers. The research and development departments are continuously working on innovative solutions that reduce the burden on the environment and improve customers' processes.

**We have already been developing, producing and trading climate-neutrally since 2020!**



# Recycling and disposal

## Zeller+Gmelin is the right partner for you.

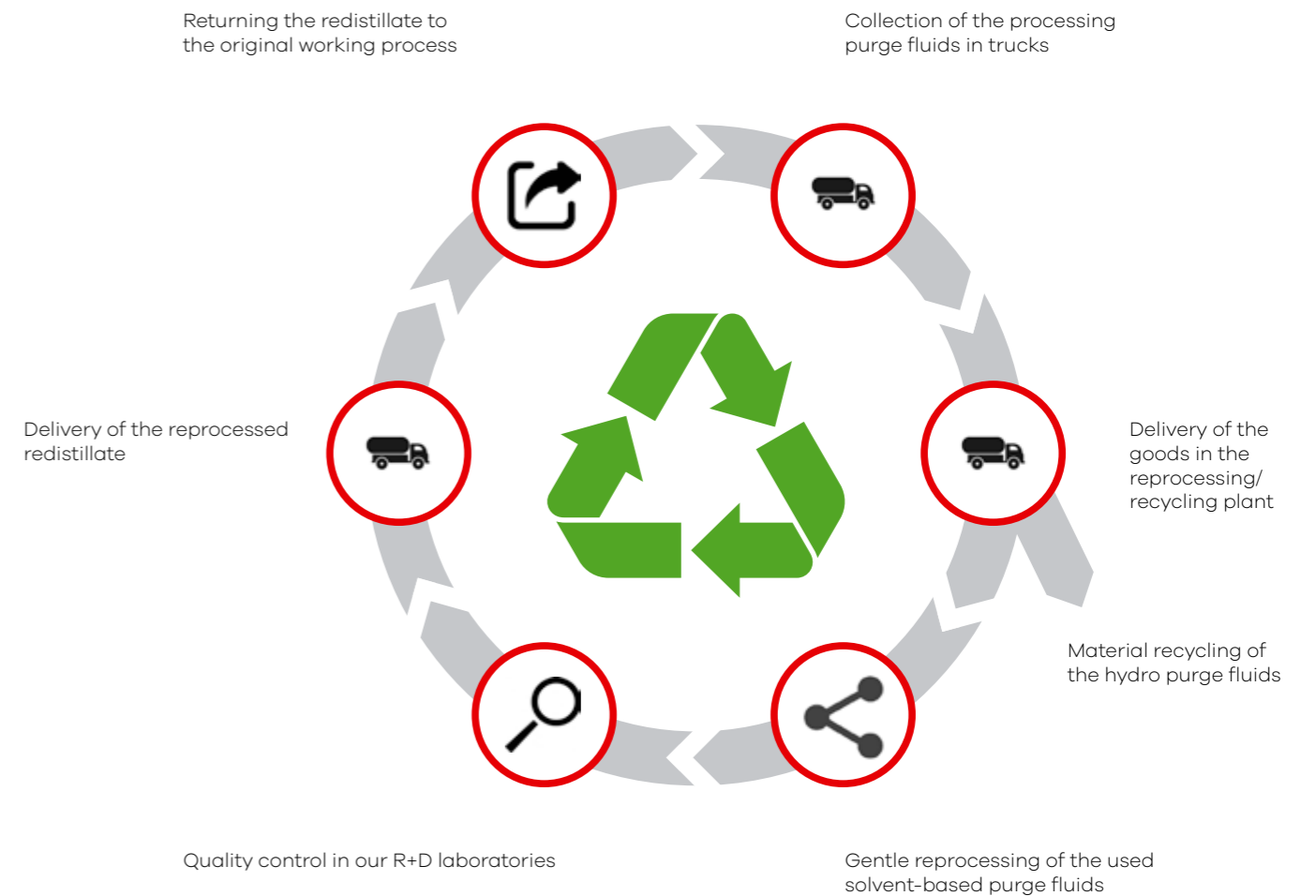
- + Recycling and recovery processes that comply with the law
- + An exclusive contact for all services
- + Unique products for many projects with supply and circulation of purge fluids
- + Optimisation, even during ongoing operation without affecting your internal processes
- + Connecting the best and joint exchange of experience

## Full Service – We have your used purge fluids under control.

Our solvent-based rinsing media (Divinol SPT Cleaner) can be recycled, as shown below. For this purpose, Zeller+Gmelin, together with (external) partners, has established a nationwide take-back network in Germany. In addition, recyclable materials used, such as solvents, are labelled accordingly and thus optimally identifiable.

## Conserving resources and securing the future.

Returning used raw materials and products to the economic cycle is an important building block for increasing resource efficiency, conserving natural resources and ultimately securing our future.





# Coating

Process chemistry

for a

brilliant performance

COA

# At home + Abroad

We are your plus.

Zeller+Gmelin has got offices worldwide, plus its head office in Eislingen in Baden-Württemberg. Our name stands for reliability and quality, at all times. Our subsidiaries and partners with all their employees ensure this on a worldwide basis.

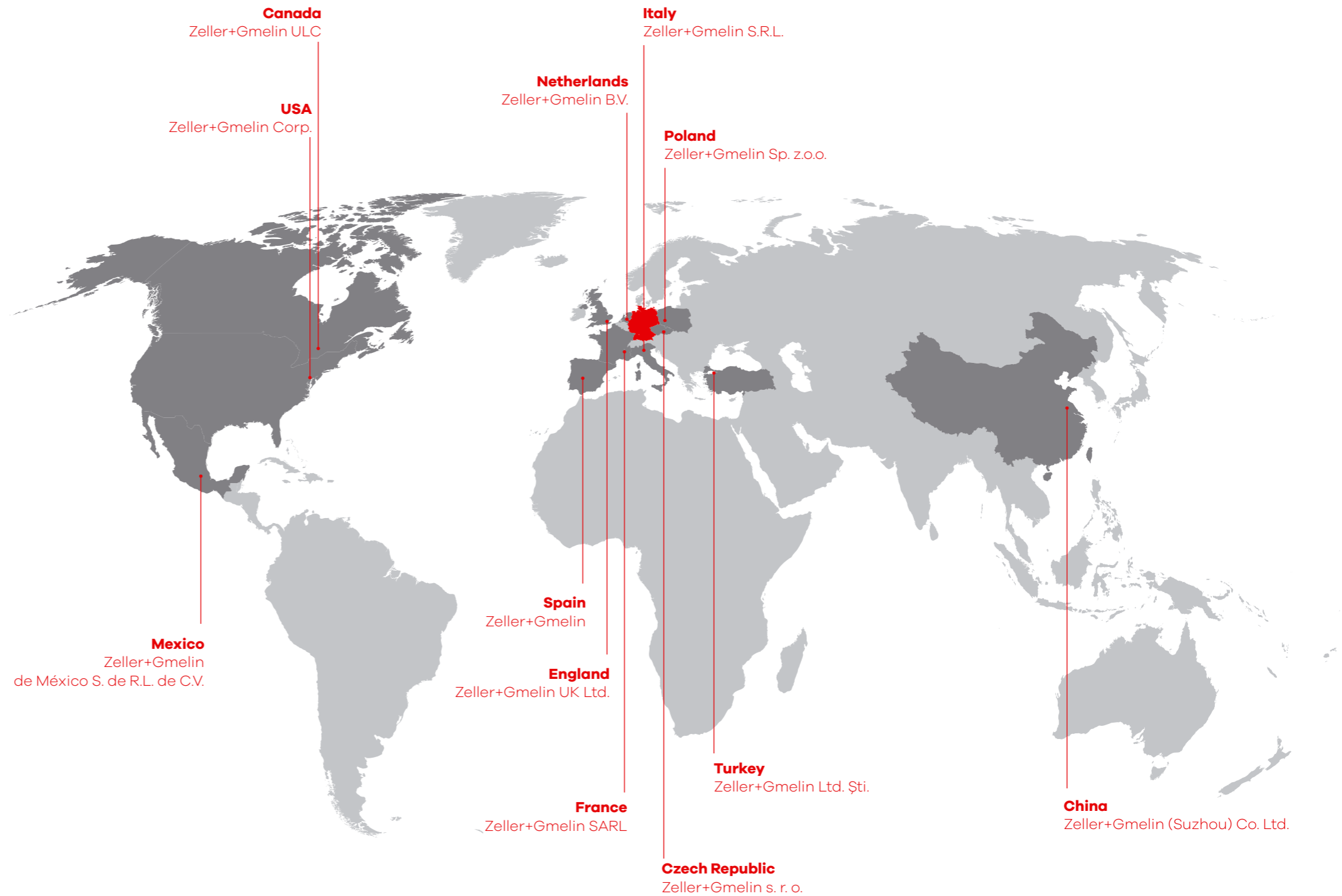
The distinct expertise of our sites and our smooth cooperation are beneficial not just to us, the company as a whole – but also to you, the customer.

The concentrated competence and understanding of processes, application and development, coupled with problem-solving skills and personal advice, are what make Zeller+Gmelin a global figure when it comes to understanding and solving your problems.



## Germany

Zeller+Gmelin GmbH & Co. KG  
ZG Fluidmanagement  
SÜDÖL Mineralöl-Raffinerie GmbH  
SÜDÖL GmbH  
SÜDÖL Recycling GmbH





# ***EXPERTLY DONE.***

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