

Your partner for alternative textile care



The fresher company.



The alternative solvent with excellent cleaning power!



Actually better.

We offer complete solutions

**...FOR ALL PROFESSIONAL SERVICE PROVIDERS
AND COMPANIES WITH A FOCUS ON CLEANLINESS,
HYGIENE AND DISINFECTION.**



➤ **CONSULTING**

➤ **PRODUCTS**

➤ **PROCEDURES**

➤ **TECHNOLOGY**

➤ **TRAINING**

➤ **SERVICE**

SEITZ is an innovative German family-owned company

with international alignment that has committed to the development of target-group-oriented solutions in all areas of professional cleaning, hygiene and disinfection.

Well advised with SEITZ

We offer products, concepts and system solutions, if you have any questions concerning commercial and industrial textile care, kitchen hygiene, room care and disinfection. Our offer is targeted at companies and service providers that also have the tasks of caring for and maintaining materials, protecting the environment and protecting people from infections and disease.

All SEITZ products share one thing

They are efficient in consumption, highly effective and serve to facilitate work. We always strive to make our products as harmless as possible work-technically. Among the raw materials, we ensure that they are bio-degradable where possible.

The Name SEITZ has a long tradition for careful progress

We have been and are striving for the development of innovative interlocking product systems and thought-through procedures, pioneering technologies and customer-oriented services by which you as a customer can improve your competitiveness.

In spite of all economic efficiency, we are at the same time aware of our responsibility for the following generations – we focus on not negatively impairing the environment and effectively and efficiently using resources.

Innovations since **1885**

In constant development for our customers



On the following pages,
we want to introduce
our new solvent **intense®**
to you, which offers
new options for textile
care in solvents in
combination with our
products and procedures.

Welcome!

More than 130 years of experience

are included in our daily work. In our in-house lab and technical development centre, we develop products, procedures and machines for national and international use and check them for efficiency and effectiveness in application technology.

We listen

when our customers report on their requirements, wishes and problems. This is where our development and research department needs to find innovative solutions.

Everything under control

Our products, procedures and plant technologies are subjected to continuous review and optimisation. This way, we can continually develop and improve quality and efficiency of our offer.

We purchase our high-quality raw materials and materials from carefully selected suppliers that meet equal quality and highest standards.

Every incoming raw material and every outbound product is routinely reviewed. Only this way can we ensure highest quality and safety that is also reflected in our DIN EN ISO 9001 certification.

Your SEITZ-Team

The fresher company.

INTENSE

Intense, thorough and effective

A true alternative to textile cleaning!

Alternative solvents have for some time been a good replacement for textile care in perchlorethylene. The further development of the machine technology also increases the range of the solvents that can be used in these machines.

Property	PER	HCS	intense®
Solvent Power	90 KB	26 KB	73 KB
Density	1,6 g/ml	0,78 g/ml	0,79 g/ml
Flash Point	none	61 °C	> 64 °C
Viscosity	0,54 cp	1,2 cp	1 cp
Boiling Point	120 °C	180–210 °C	180–210 °C
Odour	chlorinated	mild	mild
Machine	PER	Multi-Solvent	Multi-Solvent
Transport Europe/Worldwide	6.1	–	–

intense® is the latest development of SEITZ – a highly effective solvent for state-of-the-art textile cleaning.

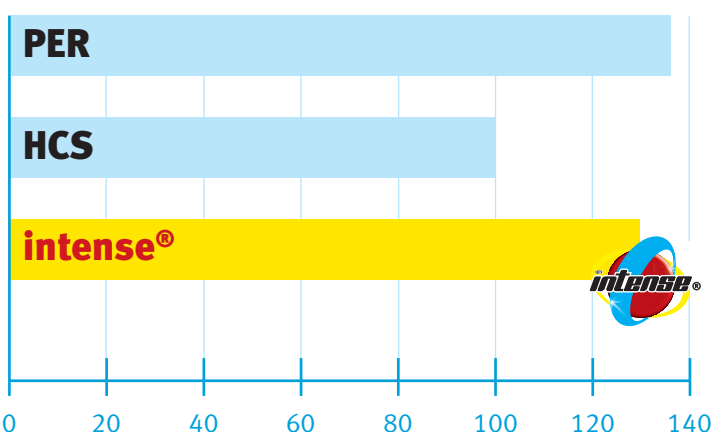
intense® is an environmentally compatible solvent. It contains no carcinogenic substances.

The increased flash point of intense also ensures safe handling and transport purely work-technically and is not a hazardous substance.

intense® has an outstanding cleaning effect, but is also suitable for sensitive, high-quality textiles with applications.

The effectiveness is particularly convincing where stain removal is concerned – as the chart shows – and the connected time and cost savings in pre- and past-detachment.

Relative stain removal (HCS = 100%)





..... 1890 1990 2015



The undisputed advantages of intense® are:

- intensive, efficient and effective
- has a high cleaning effect
- ensures smooth goods and reduces the ironing effort
- ensures unusual cleanliness
- is comfortable and mostly odorless
- is excellent in removing of water-soluble stain
- is gentle to fabrics and reduces the pre-spotting action
- can be used in any multi-solvent machine
- can be disposed on the same way like in any Hydrocarbon dry-cleaning process via classic disposal paths
- does not contain CMR substances
- reduces the effort when finishing

intense® is able to take up a certain amount of moisture. This makes it much easier to remove water-soluble contamination and stains from tissue. Furthermore intense can dissolve fat- and water-based stains easily with its molecular structure and high Kb value. In cooperation with the outstanding aids of SEITZ, the clothes become much cleaner, stay smoother and are easier to iron. This saves time and costs in aftertreatment.

intense® cleans gently and leaves textiles in their original form. This makes finishing even simpler and faster.



What you always wanted to know about intense®

What is intense®?

intense® is a carbon- and hydrogen-atom-based solvent newly developed by SEITZ.

intense® has an innovative booster system that clearly increases cleaning performance.

intense® is the brand name for this new solvent, globally protected by SEITZ.

How much experience could be collected in use of this solvent?

SEITZ introduced the first high-boiling solvents on the German market as early as 1990. Based on this knowledge, the research department continually developed the products further. **intense®** is the result of decades of experience in terms of modern hydrocarbon solvents.

Why was this solvent developed?

Fat and water-soluble contamination is not perfectly removed by hydrocarbon solvents. To still achieve a good cleaning effect, the conventional solvent had to be changed and optimised.

Do I still need a cleaning amplifier?

A cleaning amplifier not only improves the cleaning effect but also has a hygienic, grip-applying and evening effect. Dirt must be released from the textile and kept afloat to avoid greying. **intense®** has these properties as well.

Where can I buy the solvent?

The solvent can be purchased around the world, but only through SEITZ, its international branches and their authorised sales partners.

PHYSICAL PROPERTIES:

What is the viscosity and smell like?

intense® is a transparent, clear liquid and has a product-specific mild smell.

Will solvent smells remain in the clothes after cleaning?

At proper solvent care, the clothes will have a neutral smell after cleaning.

PHYSICAL DATA:

What are the solvent's physical data?

Coal- and hydrogen-based solvent with a special booster system

Dissolving power: 73 kb

Density: 0.79 g/cm³

Flash point: >64 °C

Viscosity: 1cp

Boiling range: 180 – 210 °C

SAFETY

What is the hazardous substance classification of intense®?

The product is classified and marked according to the CLP regulation. For more information, see the MSDS.

How safe is handling of intense®?

Generally, there are no safety-relevant concerns when handling **intense®**. The respective safety measures should be observed when handling the solvent.

CLEANING EFFECT

What is the cleaning result like?

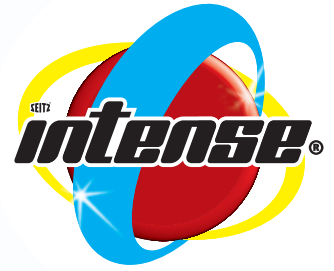
intense® is able to take up moisture. This makes it much easier to remove water-soluble contaminations and stains from the fabric.

Due to its molecular structure and the connected high KB figure, **intense®** can safely dissolve grease and wax based stains.

intense® cleans gently and leaves the textiles in their original shape. This makes the finishing even simpler and faster.

What are the advantages of this solvent over HC?

intense® has a higher cleaning power and improved stain removal. Particularly water-soluble contamination can be removed much more easily thanks to the innovative booster procedure.



What advantages does the solvent have over perchlorethylene?

intense[®] is an environmentally neutral solvent and therefore has lower requirements in authority supervision. This not only simplifies the storage conditions but also transport.

What about water-soluble stains?

In cleaning machines with distillation, water-soluble stains can be removed much more easily by using cleaning amplifiers, cleaning activators and water.

ECONOMIC EFFICIENCY

How high is the effort in pre- and post-cleaning?

Thanks to the special components, **intense**[®] offers easier spot removal and reduces the effort for pre- and post-cleaning.

How high are the costs for cleaning and care of the solvent?

Cleaning and care of the solvent with distillation

For cleaning and care of the solvent by distillation, only the costs for the energy expended will arise. Time expenditure and product costs from addition and disposal of additional filter aids do not arise. Fats and other substances that are hard to remove by filtration are safely removed.

Errors are reduced to a minimum. Any dye residue on overdyed clothes or from ballpoint pens are safely distilled out.

Cleaning and care of the solvent without distillation

Cleaning and care of the solvent is possible with filter aids. Careful care and compliance with the procedures are required here to maintain the solvent quality.

Maintenance of the hygienic condition

The danger of bacteria formation in the cleaning machine and the connected effort of solvent care does not differ from that of classic hydrocarbon solvents in **intense**[®]. If the corresponding care is performed, there will be no unpleasant odours from bacteria.

How high is the solvent consumption?

Precise consumption values can be requested from the different machine manufacturers. According to experience, the consumption is below 0,25 % regarding the mass of the cleaned goods, depending on the goods used (thick or thin goods).

APPLICATION

How does SEITZ support me in conversion and application?

SEITZ has put together a package for best use of the **intense**[®] procedure. It contains the generation of cleaning programmes and training of your employees for the new procedures and their application.

APPROVALS AND PROVISIONS

Which approvals do I need/which provisions do I have to observe when operating an **intense**[®] cleaning machine as compared to hydrocarbon solvents?

According to our information there should be no difference in operating in hydrocarbon machine instead of an intense machine. In case of doubt contact your local authorities.

DISPOSAL

How can I dispose of distillation and filter residue?

The wastes and thus the distillation and filtration residue must be recycled or disposed of by a suitable disposal company.

MACHINES

In which cleaning machines can I work with **intense**[®]?

It can be used in all cleaning machines that are sold as "multi-solvent machines" by the machine manufacturers. Machines that are made for a flash point of > 61°C can easily be operated with **intense**[®].

Whether older hydrocarbon solvent machines can be retrofitted must be determined from case to case by the machine manufacturers.

Which manufacturers offer **intense**® machines?

All nationally and internationally active machine manufacturers have tested **intense**® intensely.

AIDS

Which aids are needed?

A number of our aids has been tested intensely in combination with **intense**® and could be released with outstanding results.

intense® pre-removal:

Solvex 1, Solvex 2 and Solvex 3.

intense® brushing agent:

Polysol KWV

intense® detergent:

Sigma intense®

intense® dry cleaning activator:

Activate intense®

intense® equipment:

Nova Finish



What tasks do the cleaning amplifiers have?

The cleaning amplifiers in **intense**® have the task of supporting dirt removal.

The classic properties of the cleaning amplifiers serve to wet the goods, provide a higher anti-static property and contain grip- and volume-promoting components. Good water binding capacity makes it possible to remove water-soluble contamination very well.

In addition to these classic properties, the cleaning amplifiers have the task of removing the dissolved dirt from the solution at the same time to keep the dirt from returning to the goods and ensure a higher dirt carrying capacity.

What task does the brushing agent Polysol KWV have?

Polysol KWV is outstandingly suitable for pre-removal of particularly stubborn stains.

Polysol KWV dissolves and softens wet and fat stains alike.

The goods share for the post-removal is significantly reduced, so that the operating run of the cleaned goods is considerably sped up.

What task does the equipment Nova Finish have?

HC- and PER-based solvents. It can be used universally in any fabrics and knits of natural and synthetic fibres.

Nova Finish achieves outstanding effects at a low application concentration and reduces the wrinkle and stain sensitivity of the treated fabrics in use as well. It also leads to a firm, elastic grip and gives the goods a well-groomed appearance.

Where do I get more information?

Please contact our field service or contact us directly at +49 (0) 6192-9948-0 or by email to info@seitz24.com.

We are happy about your interest!



We hope that we could have broached and explained most of the aspects of **intense**® by our catalogue of questions. However, should you have any further questions or if you would like to make an appointment with our sales technician.

SEITZ has developed a completely innovative drycleaning detergent for use with textiles that are very difficult to clean, from private households, hotels and restaurants to institutional users. **PureClin San**[®] removes these kinds of soil with utmost fiber protection and hygiene.






By addition of active fragrant components, the textiles receive a pleasant fresh fragrance even after drying which gives the wearer the impression of a freshly washed textile.

The cationic drycleaning detergent for clean and hygienic Textile Care especially adapted for cleaning in intense solvent.



PureClin San[®]

Use the power of this strong formula ...

- Active Odour Absorption 
- Hygienic Cleanliness 
- Caring Substances 
- Powerful Cleaning 
- Machine Protection 

Even sensitive and delicate fabrics become profoundly clean and hygienically pure!

- ◆ The active odour eliminating components of **PureClin San**[®] in coordination with **Preclin odoSorb**[®], actively eliminate all odors which might normally still remain in the textiles after drycleaning.
- ◆ The **PureClin San**[®] formulation aims at a profound hygienic cleanliness, preventing the transfer of soil likely to cause diseases and thus effectively avoids possible contamination.
- ◆ In addition to protecting colour brilliance, textiles treated with **PureClin San**[®] will be more easily finished; perfectly brought back into their original form without any problem. Special ironing aids and formulations with specific surfactants help to make the finishing process simple and effective.
- ◆ By using different types of raw materials containing surfactants, **PureClin San**[®] provides superior cleaning of a greater variety of soil and guarantees perfect hygienic cleanliness with a fiber penetrating effect.
- ◆ Due to its special formulation, **PureClin San**[®] prevents the development of bad odors and at the same time contributes to maintaining solvent clarity. Anti-corrosive components protect the drycleaning machine and extend its life.

The products



Pre-brushing Agent



Polysol KWV

Pre-brushing agent for universal application

Outstanding for pre-detachment of particularly stubborn stains. Solvent and softening effect on wet and grease contaminations. The goods share for post-detachment is essentially reduced so that the operating passage of the cleaned goods is much accelerated.



Drycleaning Activator



Activate intense®

Drycleaning Activator for intense®

Activate intense® renders excellent drycleaning results on water-soluble soiling. Water addition up to 1% (10ml/kg) is possible. By use of **Activate intense®**, numerous stain substances can be removed, which considerably reduces the work expenditure in pre- and post-spotting.



Drycleaning Detergent



Sigma intense®

Cleaning amplifier with freshclean system

Contains anionic and non-ionic surfactants, anti-static and grip-producing components and scents. The unique FreshClean system prevents unpleasant smell residues and gives the goods a pleasant smell.



Spotting Agent



Solvex 1 – 3

Spotting agents for pre- and post-spotting

These effective detaching agents are suitable for Hydrocarbon and Silicon based solutions. **Solvex 1** serves to remove grease and colour stains, **Solvex 2** is used for blood- and protein-containing stains and **Solvex 3** to remove tannin and tannin-containing stains.



Solvent



intense® – Alternative halogen-free solvent

intense® is an innovative solvent with optimized performance and can be employed in all types of machines recommended for hydrocarbon solvent use. It has an excellent solubilizing power for oil- and water-based stains. intense® is chemically stable, can be distilled without problem, has good drying qualities and enables short batch cycles. It's water solubility is extremely low and separation in the water separator functions without problem.



Technical competence in theory and practice



SEITZ – Consulting and Service

If you decide to use SEITZ products, you are trusting in a traditional company that not only specialises in pure product sales, but also supports you personally with comprehensive service. The trained employees of our application technology and field service use their outstanding specialist knowledge and long experience to make work with our products and procedures as pleasant as possible.

As you could learn in the brochure, we offer a comprehensive concept that was specifically developed for each goods type. Well thought-through construction kit systems for perfect textile care.



Impressive application technology

We offer overall solutions for washing, wet and dry cleaning.

We offer a wide product range for dosage of our products. Dosage pumps and our technology department ensure individual and precise solutions for dosage of chemicals. Make an appointment with our field service employees right away!

Consulting and training of your staff

SEITZ offers extra-occupational trainings and helps simplify handling and avoid errors. The offered trainings turn your employees into outstanding specialists and end with a qualification test.



POSSIBLE SUBJECTS INCLUDE: washing procedures, product use, hygiene and quality standards, fibre science, care marking, goods sorting, detachment training and complaint handling. Your employees will be kept up to date on all subjects and new employees will be trained to become competent users without delay.

Ask about our comprehensive services and offers.

WE WILL SUPPORT YOU WITH ACTION AND ADVICE



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