

Your partner for **alternative** textile care



The fresher company.



The alternative solvent with excellent & intense® cleaning power!



Actually better.



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 perchloroethylene. The further development of the machine technology also increases the range of the solvents that can be used in these machines.

intense® is the latest development of SEITZ – a highly effective solvent for Better, Yet Safe, State-of-the-Art textile cleaning.

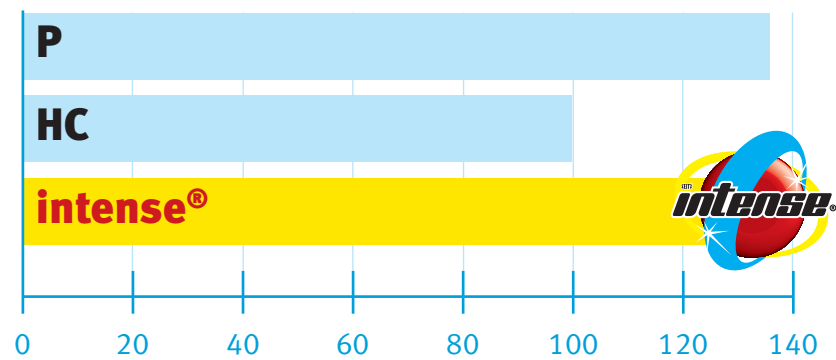
intense® has an outstanding cleaning effectiveness, but is also suitable for sensitive, high-quality textiles. **intense®** is safe on most Beads, Sequins, & Trims.

intense® is highly effective and particularly outstanding where stain removal is concerned. And, as the chart shows, has the cleaning power nearing Perc yet the safety and flexibility of Hydrocarbon.

Property:	PERC	Hydrocarbon	intense®
Solvent Power:	90 Kb	26 Kb	73 Kb
Flash Point:	None	141.8 °F	> 147.2 °F
Boiling Point:	248 °F	356–410 °F	356–410 °F
Odor:	Pungent Chlorinated	Mild	Mild
Machine Type:	Perc	MultiSolvent	MultiSolvent
Transport DOT:	HazMat-6.1	Class III-A	Class III-A



Relative stain removal (HC = 100%)



intense® is an environmentally friendly solvent. It contains no carcinogenic substances. No known influences on man or the environment (air, ground-water, or soil) at this time. The increased flash point of **intense®** also ensures safe handling and transport. **intense®** is, therefore, not a considered a “hazardous substance”.

Over 5000
Dry Cleaning Machines Globally
Over 3000
in North America



1890



1990



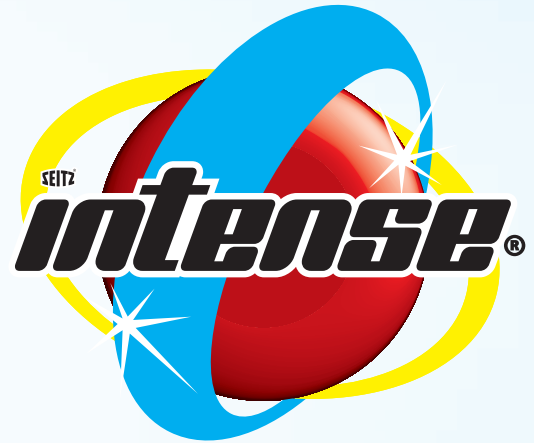
2015



2020

The undisputed advantages of intense® are:

- intensive, efficient and truly effective
- has a high cleaning Power – 73kb
- ensures smooth goods and reduces the finishing time
- ensures fantastic cleanliness in process with far less pre & post-spotting
- is mostly odorless
and with Seitz detergent, fresh scent finish
- solvent is outstanding at carrying moisture greatly assisting with water-soluble stain removal
- is gentle on fabrics. Including colors and dyes
- can be used in any multi-solvent class III-A machine
- can be disposed of in the same way as any Hydrocarbon for the dry-cleaning process... via classic disposal paths
- does not contain Carcinogens, Mutagenic, or toxic to reproduction (CMR) substances
- reduces the effort needed for finishing.



intense® is able to absorb/carry between 5–10% of moisture. This makes it much easier to remove water-soluble contamination and stains from textiles. Furthermore, **intense®** can dissolve fat and water-based stains very easily with its molecular structure and high Kb (degreasing) value. And with the use of outstanding detergents developed by SEITZ, the clothes come out much cleaner, remain smoother and are easier to finish. This saves valuable time and labor costs.



What you always wanted to

THE SOLVENT:

What is **intense**®?

intense® is a carbon- and hydrogen-atom-based along with Glycol derivatives bonded solvent newly developed by SEITZ.

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

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

How much research and testing of has been done in use of **intense**® as a Dry Cleaning solvent?

SEITZ introduced the first high flash point solvents on the German market as early as 1990. Based on this Experience, Seitz's research department continued to develop this and complementary products further. **intense**® is the result of decades of experience in terms of modern hydrocarbon and blended solvents.

Why was this solvent developed?

Oils, Fats, and water-soluble contamination is not easily removed by hydrocarbon solvents. To still achieve a good cleaning results, the conventional solvent had to be changed and optimized.

Do I still need a detergent?

A detergent not only improves the cleaning effect but also has a hygienic result. This, along with adding "Body" and "Touch" aids in the ease of finishing. Additionally, soil must be released from the textile and kept afloat/suspended to avoid greying and redeposition. **intense**® and the associated detergents have these properties as well.

Where can I buy **intense**®?

intense® can be purchased around the world, but only through SEITZ, and/or its international branches and their authorized sales partners and distributors.

THE 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?

With proper solvent care, the clothes will have a neutral/fresh smell after cleaning.

THE PHYSICAL DATA:

What are the solvent's physical data?

Coal- and hydrogen-based solvent and Glycol derivatives bonded solvent along with a special booster system

Dissolving power:	73 kb
Density:	0.79 g/cm ³
Flash point:	>147.2 °F
Viscosity:	1cp
Boiling range:	356 – 410 °F

THE SAFETY DATA:

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 any solvent(s).

THE CLEANING EFFECT:

What is the cleaning result like?

intense® is able to carry and control 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 **intense**® over Hydrocarbon?

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 by Regulatory authorities. This simplifies the use in plant, the storage and transportation of the solvent.

What about water-soluble stains?

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

How MUCH in pre-spotting and post-spotting is necessary?

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

THE ECONOMIC EFFICIENCY

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

Cleaning and care of the solvent with distillation: The cost of cleaning and the care of the **intense**® solvent by distillation should be the same as it was with your care for Hydrocarbon. The only cost directly involved with either solvent is that for the energy (Steam or Electric) expended by the still itself and costs from disposal of filters. Fats and other substances that are hard to remove by filtration itself are safely removed in distillation. Additionally, dye residue on overdyed clothes or from ballpoint pens are safely distilled out as well. This is an added benefit to the unique Seitz double bath proprietary programs.

know about intense®



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 at the **intense®** solvent care is greatly reduced from that of classic hydrocarbon solvents. If the corresponding care is performed, there will be no unpleasant odors from bacteria.

Since **intense®** carries so much more moisture, this will in turn reduce the buildup of moisture and therefore reduce the potential of bacteria and odor "Bloom" and growth. Better water separation occurs.

What is the solvent Mileage or consumption?

Precise consumption values can be requested from the different machine manufacturers. Many operators are enjoying mileage up to 100,000lb of Cleaning per 200ltr (53gal) drum. Approximately 1.5 pennies/lb cleaned. How much does your Dry Cleaner/Spotter make per hour?

THE 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 programs and training of your employees for the new procedures and their application.

THE 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.

THE 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. Contact water should be treated in the same way as would that of Hydrocarbon contact water. Consult local authorities.

THE MACHINES

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

intense® can be used in all Class IIIA cleaning machines that are sold as "multi-solvent machines" by the machine manufacturers. Machines that are made for a flash point of > 142 °F 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. Best to consult the Manufacturer and your Seitz Technical Representative.

Which manufacturers offer **intense®** machines?

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

THE DETERGENT AND ADDITIVES

What Detergents and Additives are needed?

A number of our Detergents, Pre-spotting and Post-Spotting agents have been tested intensely in combination with **intense®** and could be used with outstanding results.

intense® injection detergents:

- Sigma intense® – W/Fresh System Scent
- Sigma Clear® – Fragrance Free

intense® pre-Spotting:

- Solvex 1, Solvex 2 and Solvex 3

intense® brushing agent:

- Polyspot Spray

intense® injection sizing:

- Nova Finish

intense® Solvent Care:

- Desolan NT – Additional Bacteria Inhibitor

What tasks do the Detergents have?

The detergents used in **intense®** have the task of supporting dirt removal.

The classic properties of the detergents serve to wet the goods again, along with the solvent itself, carrying the moisture, provide a higher anti-static property and contain texture and feel of the garment. Good water binding capacity makes it possible to remove water-soluble stains very well. In addition to the typical properties, the cleaning detergents have the task of removing the dissolved dirt from the solution at the same time to keep the dirt from returning to the goods (inhibit redeposition) and ensure a higher dirt carrying capacity.

Where do I get more information?

Please contact our field service or contact us directly at (813) 886-2700 or by email to Info.USA@seitz24.com.

Should you have any further questions or to make an appointment with our sales technician. Please call or write.



**Solvent
Conversion Solution**



Let SEITZ Convert You! You will see the Results – Day One!

Now, you can enjoy the great cleaning of **intense**® by converting your current class III-A dry cleaning machine along with utilizing your current inventory of hydrocarbon solvent already in your machine.

With **Ultra intense**® conversion solvent together with your solvent and its built-in binding properties, your existing hydrocarbon machine is now a ... **intense**® machine!

- No need to dispose of current solvent
- No advance machine maintenance necessary
- Only a “Day of Conversion” de-linting process and be ready to change your filters soon.
- After conversion, continue to refill with **intense**® Refill Solvent and enjoy exponentially better cleaning on Day One!



Energized intense®

Another advantage of **intense**® is the ability of energizing it or heating it.

By doing so it cleans even more intensely surpassing the KB value of Perc all while continuing to be gentle on the textile as does Hydrocarbon.

A Double Whammy on Soil and Grease!

The products



Solvent



intense® Solvent / intense® Refill – 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. Its water solubility is extremely low and separation in the water separator functions without problem.



Dry Cleaning Detergent



Sigma intense® – Detergent Specifically for intense® Solvent with Fresh Scent System

Contains anionic and non-ionic surfactants, an anti-static and grip-producing Components along with a fresh scent. Renders excellent dry-cleaning results on wet-bound and pigment-bound soiling, even without adding additional moisture. Provides excellent stain removal and defined bright colors and prevents redeposition and greying. **Sigma intense®** prevents the buildup of electrostatic charge and lint formation on the textiles during drying. The unique FreshClean system prevents unpleasant smell residues and gives the goods a pleasant smell.



Sigma Clear – Detergent Specifically for intense® Solvent – Fragrance Free

Contains anionic and non-ionic surfactants, an anti-static and grip-producing components. Renders excellent dry-cleaning results on wet-bound and pigment-bound soiling, even without adding additional moisture. Provides excellent stain removal and defined bright colors and prevents redeposition and greying. **Sigma Clear** prevents the buildup of electrostatic charge and lint formation on the textiles during drying.



Pre-Spotting / Pre-Treat Spray



Polyspot 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.



Spotting Agent



Solvex 1 - 2 - 3 – Spotting agents for pre- and post-spotting

These effective detaching agents are suitable for solvent solutions.

Solvex 1 serves to remove grease and color stains, **Solvex 2** is used for blood and protein containing stains and **Solvex 3** to remove tannin and tannin containing stains.



Injectable Finishing Agent



Nova Finish® – Synthetic resin-based retexturing (sizing) finish

Retexturing finish for use in **intense®** solvent for all woven and knitted fabrics made from natural and/ or synthetic fibers. **Nova Finish** offers excellent results with minimal injection application concentrations and reduces the pressing and finishing time treated fabrics. Additionally, the product protects the fabrics from penetration of wet-bound stains and soil into the fiber inside further lowering the time for Pre- and Post-spotting on future visits. An inexpensive addition that produces a fine bodied garment and saves labor.





The fresher company.

Technical competence in theory and practice

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Innovations
since **1885**
In constant development for our customers



The Alternative Solvent with Excellent Cleaning Power and Results



SEITZ – Consulting and Service

If you decide to use SEITZ products, you are trusting in a company deep with tradition that not only specializes in quality product sales, but also supports you personally with comprehensive technical support services. The Seitz Team, experienced in our application technology and field service use their outstanding knowledge and long experience as specialist to make working with our products and procedures as pleasant as possible.

As you will see in the brochure, we offer a comprehensive concept and products that was specifically developed for each textile type. We offer overall solutions for Dry Cleaning, Laundry, and true wet cleaning.

We offer a wide product range of both liquid and powder products. We have over 135+ years of producing globally recognized chemistry and products. Additionally, we offer state of the art Dosage pumps with the technology to ensure individual and precise solutions for dosage of our chemicals. Make an appointment with our field service employees right away!

Consulting and training of your staff

Seitz offers training and individualized seminars to make sure that your team is well versed on the simplified use and handling of our products for best results and to avoid errors. The offered trainings turn your employees into outstanding specialists and end with a qualification test.

Possible subjects include but not limited to: Washing Procedures, Product Use, Hygiene and Quality Standards, Fiber Science, Care Labeling, Goods Sorting, 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. You have our Commitment to Common Success! Ask about our comprehensive services and offers.



We will support you with action and advice! Your Success Insures Our Success!

ONLY TO BE USED BY PROFESSIONAL LAUNDERER OR TEXTILE CLEANERS! ALWAYS READ LABELLING AND PRODUCT INFORMATION PRIOR TO USE!