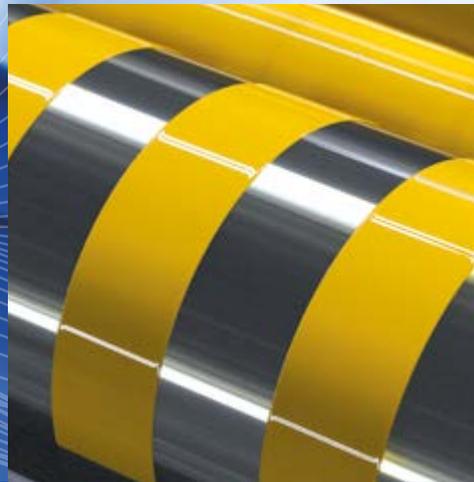


DRUCK  CHEMIE

PRINT LIQUIDS TECHNOLOGY



The source of print quality

Introduction

Knowledge, experience and commitment to lead

DC DruckChemie, a wholly owned subsidiary of the UK based global industrial group, Langley Holdings plc, is a manufacturer and supplier of speciality chemicals, consumables and support services for the printing and graphics industries.

DruckChemie corporate group serves over 7000 customers, with representatives in ten European countries as well as Brazil and Mexico, supplying over 4000 products and employing more than 300 people in locations around the world. Products conform to relevant standards and are officially certified by industry trade associations and research institutions.

In addition to innovative products, DruckChemie provides a range of support services to printers. Application engineers assist customers in optimising their processes and material consumption to ensure maximum value for money. As a certified waste disposal organisation, we assume responsibility for professional product recycling after usage. The knowledge gained from this service cycle flows back into product development and continuously refined services. Satisfied customers and the responsible handling of chemicals are our top priorities.

DruckChemie works in partnership with all leading printing press manufacturers including Manroland, Heidelberg, Goss, KBA, Komori and Mitsubishi.

- **A complete range of products and services**, continuously optimised for customer needs
- **Certified waste disposal organisation** – DruckChemie assumes responsibility for professional recycling and disposal of products and chemicals after usage
- **Vast industry knowledge** invested into ever more efficient, environmentally compatible products and services





- FOUNT SOLUTIONS
- WASHING AGENTS
- VARNISHES
- SILICONES
- ANTI-SET-OFF POWDERS
- OFFSET BLANKETS
- WASH CLOTHS
- WASTE MANAGEMENT
- AUXILIARIES

Products

Fount Solutions

Quality fount solutions are vital to the success of the print process. DruckChemie provides a complete range of fount solutions developed to provide crisp, high definition reproduction for all machine types:

- Sheetfed
- Heatset
- Coldset
- Narrow web

System Cleaners

DruckChemie supplies a selection of agents to help clean and maintain systems, free from bacterial contamination, and ensuring optimal press operation.

- Alkakleen
- Acikleen
- DC Biozid

Alcohols and Alcohol Substitutes

The DruckChemie delivers a range of alcohols and alcohol substitutes for:

- Reducing the surface tension for thorough wetting of printing plates.
- Increasing of take-up and improving water transfer
- Cooling effect through rapid evaporation
- Support for a fast ink / water balance

DruckChemie also supports alcohol-free or alcohol reduced printing at customer facilities:

AlkoGreen: 100% alcohol substitution.

Alcohol: Isopropyl alcohol 99.9% 2-Propanol

Alcohol Reduced: AlkoGreen 2.0

Iso 800: Reduced alcohol consumption by up to 15%, reduced VOC content up to 15%

Water Hardeners

Printing depends on a consistent supply of process water going to press with optimal hardness so as to ensure the highest quality and consistent print. DruckChemie provides a range of hardening agents to keep process water at a desired level between 9° and 11° dH:

- Calcilot
- Macnilot

Varnishes

DruckChemie provides a complete range of water-based coatings and oil-based overprint varnishes and can develop highly specific varnish types as specified by customers.

Blanket and Roller Washes

DruckChemie's advanced washing agents, developed through years of continuous lab testing, guarantees the flexibility required to meet the ever-changing demands of print. A comprehensive

certification standard established by FOGRA and the machine manufacturers guarantees perfect compatibility and outstanding print results.

DruckChemie provides cleaning agents for UV inks and for printing machines with automatic wash systems:

- Sheetfed printing machines
- Coldset printing machines
- Heatset printing machines
- Narrow web

A selection of migration-free products are also available for the food packaging industry.

DC Paper Save

DruckChemie has developed its own unique, patented dampening additive for heatset printing, that offers distinct economical and ecological benefits for print shops:

- Reduced downtime
- Shorter production times
- Less paper waste from restarts
- Faster restoration on ink-water balance
- 50% reduction in print run paper waste
- Up to 2% reduction in total paper consumption





Silicone Emulsions

New developments in commercial web press technology are making silicone selection more crucial than ever. DruckChemie's range of silicones are characterised by a uniform particle size to ensure outstanding stability, low viscosity and optimum wetting properties.

Anti Set-Off Powder

DruckChemie's range of anti set-off powders have been developed for uniform particle size therefore even distribution over the printed sheet can be achieved eliminating set-off of printed jobs in the stack and allowing for easier post print processes such as varnishing and lamination.

Special manufacturing processes impart hydrophobicity into the powders, making them particularly suited to the finishing of overprint varnish jobs.

Offset Blankets

Proper offset blanket selection is vital to stable, high quality printing. DruckChemie's wide range of offset blankets, matched to highly specific areas of application, deliver outstanding results:

- High-definition dot reproduction
- Minimal dot gain
- Excellent image format printing
- Optimum paper release
- High crumple resistance
- Outstanding service life

Wash Cloths and Cleaning

Wash cloths must deliver optimum cleaning results, while keeping washing agent consumption as low as possible. DruckChemie dry wash cloths are designed to minimise downtime in order to deliver significant cost and environmental benefits. Moreover, a complete range of pre-impregnated wash cloths are also available.

- Maximum homogeneity in fibre structure
- Strengthened PET and cellulose fibres
- Fibre structure aligned to running direction delivers greater strength and reduced occurrence of faults

Wash cloths for automatic washing equipment:

- Mini rolls and jumbo rolls for automatic blanket washers
- Mini rolls and jumbo rolls for impression cylinders

Print Cloths for Manual Cleaning

DruckChemie offers a wide range of different cleaning cloths for daily print shop use.

- Laundered print cloths service
- Disposal rags of cloth, non-woven or paper

AUXILIARIES

Rollers

Walzenwaschmittel (Roller wash)
DC Gel AL (Calcium deglazer)
Walzenschutzpaste (Roller protector paste)
Poropast (Premium roller deglazer)

Ink Unit

Farblöser (Ink solvent)
Spezialreiniger (Anilox roller cleaner)
Antihaut flüssig (Antiskin liquid)
Farbfrisch flüssig (Ink fresh liquid)
Farbkastenfolie (Ink duct foil)

Plates

Plattenreiniger Spezial (General purpose plate cleaner)
Start-Aktiv (Plate cleaner & scratch remover)
DC Heavy Duty Plate Cleaner
Plattenreiniger R/CtP (Proprietary CtP plate cleaner)

DC Gum (Plate cleaner & gum all-in-one product for short storage of plates)
Neutralgummierung (Plate gum)

Hand and Skin Protection

Hand Cleaners
Barrier Cream
Nitrile Gloves
Disposable Gloves
Work Gloves

Service Tour

Close, regular contact for complete customer support

The DruckChemie service tour team, comprising a close-knit logistics network with over 80 service vehicles, can make regular visits to any customer for inventory management, on-site replenishment and advice on any aspect of materials or other requirements, saving time and money for customers while also helping to preserve the environment.



- Service team driver collects residual and waste products and packaging for responsible disposal
- Specialist crews available on short notice with the ability to reach any print shop within hours
- Provision of accurate advice and full support for all technical matters as standard practice
- Deliveries directly to in-house storage facilities, to the press or to holding tanks, according to customer requirements
- Extensive geographical coverage



Waste Management

Waste disposal as a core service commitment

As a certified waste disposal organisation, DruckChemie is able to reassure its customers that its transport vehicles and warehouse facilities are fully compliant with all legally prescribed controlling directives. The company's high standards of safety, reliability and customer service are precisely reflected in its commitment to professional and appropriate waste disposal. DruckChemie devotes significant resources to the development and provision of optimal recycling concepts for highly specific waste disposal requirements.

- Provision of comprehensive information and consultation on waste-related matters
- Trained hazardous goods drivers (ADR certified, German CCI trained)
- Collection directly from storage facilities or directly at the press
- Guaranteed strict separation of waste according to content and composition and recirculation into the resource chain wherever possible
- Packaging and markings in accordance with applicable regulations and standards
- Laundered print cloth service



Environment

Care for the environment as a top priority

DruckChemie's end-to-end recovery and recycling services are contributing to the preservation of the environment. In addition, the company is also committed to the development of ever more innovative waste management solutions.



DruckChemie devotes the same care and attention to printer waste and disposal issues as it does to application support when introducing its innovative products. The DruckChemie disposal services provide assistance and detailed answers to an ever-increasing number of environment-related disposal questions, collating continuous feedback to determine ways that environmental performance can be improved still further.

- Consistent focus on occupational safety and environmental protection
- Logistics concept for optimum-cost disposal that avoids trips without loads wherever possible
- Comprehensive information and consultation on waste-related matters
- Environmentally sound deposit system
- VOC-free fount solutions and washing agents





Research and Development

A driving force for its industry

DruckChemie's ongoing commitment to a rigorous research & development programme has helped make it the main driving force for its industry.



In conjunction with FOGRA (German Graphic Technology Association) and the world's leading printing press manufacturers, DruckChemie has helped take the manufacture and supply of consistently high quality chemicals and consumables to greater levels of excellence, with higher productivity, greater safety, less waste and significantly improved air quality, resulting in safer working environments.

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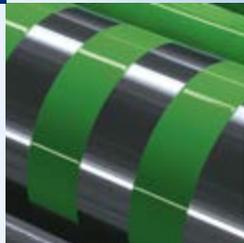
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