

Exciting forecast for lubricants

Condat's company policy is to offer long term lubricant solutions. Its R&D and engineering teams research new formulation solutions to drive the industry towards safer and greener products for employees and the environment.



Boron free coolants

Condat has developed coolants for the flat glass industry called Condaglass FA.

These coolants address increased demand for boron free products in the flat glass sector. Without mineral oil, they are free of hazardous ingredients (DEA, nitrites, formaldehyde-releasing bactericides). They are not classified as irritating or skin sensitive.

The high lubricity properties assures quality grinding and quick removal of fine particles. It also prevents burns and black marks, resulting in a smooth and clean surface.

Condaglass FA addresses productivity and quality constraints while still providing an EHS friendly environment for plant personnel.

Sulphur-free swabbing mould compounds

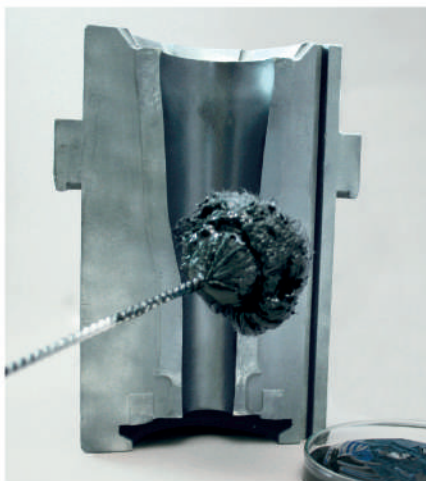
With experience in grease production, development and research since 1854, Condat has swabbing mould solutions for blank, neck ring and blow moulds.

After the success in 2017 with its sprayable greases for robot swabbing, the company has dedicated its efforts this year on a new sulphur-free lubricant to increase the life of bronze/brass moulds and to improve overall glass container quality. When removed during job changes, moulds are cleaner and have little to no 'checks' (**Fig 1, overleaf**).

Condaglass 367 SF (Sulphur Free) grease will meet customer requirements and can result in double the production time of current brass mould.

IS maintenance

Condat also addresses maintenance needs with its lubricants.



Thanks to its expertise in high temperature fluids, used for example in the steel and aluminium industries, the company understands the challenges and issues encountered in an extremely hot work environment.

Its new Glass HTS 250 is a 100% synthetic oil dedicated to central lubrication of the IS Machine with high flash points. Already approved by both glass plants

and IS machine OEM's, this lubricant has performed with the following benefits: low evaporation, high thermal stability, low oxidation and excellent lubricating properties.

Lubricant consumption can be reduced by up to 50% compared to a standard mineral oil. Glass HTS 250 is free of heavy metals, chlorine and solvents and can also reduce fire risks. It specifically targets keeping a lubricating budget under control with lower cost and emphasises production floor safety without compromising productivity.

This product is available with a fluorescent dye that reflects easily under a UV light.

This allows maintenance to detect machine leaks quickly and consequently lower lubricant consumption.

Expertise

Condat strengthened its position in the glass industry with the acquisition of the Renite company in October 2017.

The acquisition was an opportunity for Condat to expand its business partnerships in North America.

The challenges of the past year have been to restore the direct, on-site customer service support regarding any existing and future Renite opportunities in North America with the help of the

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local manufacturing support at Condat Corp in Saline, Michigan, USA (pictured next page).

The team has worked hard on the Renite manufacturing and production transfer with the main objective on enhancing quality control measures and providing optimum service and delivery.

Difficult designs

Chek-No-Mor (CNM) is an anti-check compound that eliminates the defects on the glass and ensures perfect releasing of engravings. It is suited for difficult designs and engravings that require high quality lubricants.

It has to be used with a 'dry swab' on finish moulds. CNM reduces or eliminates checks when applied to the bottom plates on IS machines.

It is effective on hot-running equipment and is useful when applied to the area corresponding to the knurled area around the bottom of the bottle.

Condat's R&D team reformulated the product to meet the new productivity requirements with a concentration on improving the cleanliness of the bottles and moulds and increasing the lubrication swab frequency.



Its thinner consistency reduces consumption, but still remains in place exactly where it is swabbed (tops, bottoms and even shoulders).

Swabbing neck ring and tableware parts

Renite H is used for brass/bronze moulds and especially for tableware and has more than more than 20 years on the market.

It is the original scientifically formulated high temperature neck-ring mould swab used around the world for many decades.

When applied to a hot metal surface, the graphite boils off cleanly to leave a silvery-black, solid lubricating film.

This film reduces friction, prevents hot gobs from sticking, and protects the surface from oxidation. Renite H is a sulphur-free compound dedicated to

address neck-ring challenges.

Clean conveyors

Renite S-24 is a coating for lehr mats and belt/cross conveyors, which can help eliminate bottom checks and rust pick-up as the ware travels through the annealing oven. It is also useful as a coating for other areas where the finished ware contacts metal, as on star wheel paddles and transfer plates.

The Renite S-24 belt coating formula has been improved by the R&D team so that this water-based graphite contains no ammonia.

Because it is mixed three parts water to one-part concentrate, most plants now use only one or two drums a year. ■

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