

CASE STUDY

Product Development & Implementation

MOVING YOUR WORLD



The Solution

The customer contacted FUCHS to discuss a more suitable product to reduce/remove the risk of future fire outbreaks.

A lubricant assessment was undertaken to determine all technical parameters i.e. temperatures of the specific application (peak and normal operating temperatures & current vulnerabilities).

The customer then set the following project KPI's:

- The product must offer sufficient lubricity, to ensure timely delivery of the molten gobs to the forming machine through the deliveries
- The product must maintain high levels of gob delivery cleanliness (low carbon forming tendencies)
- Improved fire-resistance

FUCHS made the decision to offer VITROLIS DL WG to the customer. This grade offers outstanding health & safety and environmental benefits.

- Water-based fluid: Greatly reduces the risk of fires associated with conventional mineral-oil based products
- Readily atomises: Produces a micro-fine mist spray for excellent wetting, essential for optimum gob acceleration and gob loading performance - particularly where very limited clearances are being employed
- Extremely low levels of soft carbon residue formation: Enables extended maintenance schedules with the potential to review application rates
- Inherently biodegradable: The product offers distinct environmental advantages compared to mineral-oil based formulations

Results & Conclusion

The customer agreed that VITROLIS DL WG was likely to match or exceed the KPI's outlined for the project, plus offered the added biodegradable/environmental benefits to lift the companies green credentials.

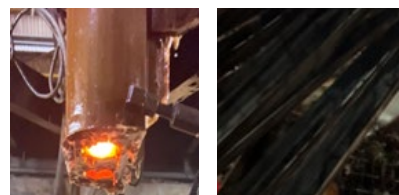
The customer agreed to product testing which lasted over 6 months, running from summer to winter 2024.

The customer noted the following improvements:

- Improved fire resistance - This was clear to see in the process with no auto-ignition of the VITROLIS DL WG, even when the molten gobs made contact at 1000 degrees. This addressed the No1 KPI for the project.
- The product maintained the cleanliness of the deliveries, which they advised us are changed every 2500 hours as part of their existing regular maintenance programme - The customer is considering a 2nd phase of the project to trial extending the maintenance intervals as the delivery troughs are looking visibly cleaner.
- The customer is happy to be making a positive impact on the environment by using an inherently biodegradable product.
- High IS machine loading speeds have been maintained with no negative performance issues related to the new lubricant.
- The customer is extremely satisfied with the price of the product, which is very reasonable for the heightened safety advantages it brings.

FUCHS will continue to provide regular aftercare to the customer who will soon be happily implementing this product across their whole facility during Q3 of 2025.

After:
No flashes upon
gob impact, preventing
the risk of fire



FUCHS LUBRICANTS (UK) plc
New Century Street, Hanley,
Stoke on Trent, ST1 5HU
Telephone: +44 (0)1782 203700
E-Mail: contact-uk@fuchs.com
www.fuchs.com/uk

[f /fuchslubricantsuk](https://www.facebook.com/fuchslubricantsuk) [@fuchslube_uk](https://www.x.com/fuchslube_uk) [in /fuchs-lubricants-uk-plc](https://www.linkedin.com/company/fuchs-lubricants-uk-plc)

