

Oxy-fuel furnace reliability reinforced by SEFPRO

SEFPRO CARE® REPAIR HOT BOTTOM: ENSURING CONTINUOUS PRODUCTION FOR OXY-FUEL CONTAINER GLASS FURNACES

For glass manufacturers, a full production line shutdown for furnace maintenance results in significant losses. SEFPRO CARE® faced a remarkable challenge: performing China's first-ever hot-state furnace bottom repair without shutdown for a container glass manufacturer in Henan Province, China. A follow-up inspection four months later confirmed that the repaired section remains stable, success-

fully helping the client avoid massive losses from production stoppage.

SEFPRO CARE® REPAIR HOT BOTTOM AZS, THE SOLUTION FOR OXY-FUEL FURNACE BOTTOMS

During routine monitoring, the client identified a serious risk of material leakage at the bottom of their 60 m² all-oxygen furnace, a key component of their production line.

This situation created a difficult dilemma: shutting down for a cold repair would have meant a complete production stop, resulting in significant financial losses and delays

in fulfilling essential orders. Continuing operations, on the other hand, posed the danger of a severe molten glass leak, which could lead to irreversible equipment damage and major safety hazards.

Faced with this urgent challenge, the client turned to SEFPRO CARE®'s advanced hot repair technology - a solution designed to restore furnace integrity without interrupting production.

REPAIR HOT BOTTOM AZS, THE KEY TO RELIABLE OXY-FUEL FURNACE PERFORMANCE

Backed by a dedicated emergency response team with extensive hands-on experience, SEFPRO CARE® is committed to solving unexpected production challenges and ensuring uninterrupted operations for glass manufacturers. When a critical hot bottom repair was required by a customer, the team mobilised immediately and arrived on-site without delay. Working in extreme conditions, close to temperatures approaching a thousand degrees Celsius, SEFPRO experts collaborated



By completing China's first hot-state furnace bottom repair without shutdown, SEFPRO has helped one Henan manufacturer avoid major losses whilst ensuring long-term furnace stability and operational safety. Here the company demonstrates how SEFPRO CARE® Repair Hot Bottom AZS enables continuous oxy-fuel container glass production.

with the construction crew to execute this complex 'surgical' intervention.

The process began with a precise diagnosis using endoscopic inspection to identify the erosion and define a detailed technical plan. Preparations included draining molten glass, drilling the breast wall, and filling eroded areas with AZS crushed blocks. A customised injection lance was designed to match on-site conditions, and a screw pump trial run ensured flawless execution. This combination of technical rigour and rapid response exemplifies SEFPRO CARE®'s role as a trusted partner in maintaining furnace integrity without compromising production.

FROM EMERGENCY TO PERFORMANCE: SEFPRO CARE® REPAIR HOT BOTTOM AZS IN ACTION

SEFPRO CARE® is dedicated to ensuring uninterrupted glass production through

rapid, technically advanced repairs. When an urgent hot bottom repair was needed, the team mobilised immediately and worked under extreme conditions near temperatures of a thousand degrees Celsius. Using Repair Hot Bottom AZS material engineered for corrosion resistance and thermal stability, the repair was executed with precision through a custom injection system. In just five hours of injection and twenty-three hours of sintering, the furnace was ready to restart within 120 hours, minimising disruption and safeguarding the client's operations.

The repair was completed within an exceptionally short timeframe:

- Only five hours of injection
- Followed by twenty-three hours of sintering
- Allowing the furnace to restart in only 120 hours

This rapid intervention minimised production disruption and safeguarded the client's opera-

tions. Three months after the repair, SEFPRO CARE® conducted a dedicated follow-up inspection. The results confirmed that the hot-repaired area remained stable and free of abnormalities, proving the long-term performance of the Repair Hot Bottom AZS solution and reinforcing the commitment to keeping glass furnaces running without costly downtime. ■



"SEFPRO's rapid response and cutting-edge hot repair materials helped us avoid immeasurable production losses. The smooth operation over the past few months is the strongest proof of success!"
On-site manager



Selfflow and easily pumpable Repair Hot Bottom AZS installation.

SEFPRO 2026

© All rights reserved

SEFPRO 
BRIGHTER SOLUTIONS TOGETHER

SEFPRO

2539 Route de Sorgues
BP30040

84130 Le Pontet - FRANCE

Tel: +33-04-9032-7252

communication.SEFPRO@saint-gobain.com

www.SEFPRO.com