Kingfisher

GM EQUIPMENT FACT SHEET NO. 0005

Industry:
Glass Manufacturing

Plant:
Glass Bottle Manufacturing

Lining System:
K-ZAS & K-BAS lining system

K-ZAS & K-BAS LINED PIPEWORK

Key Benefits

- ✓ **Improved wear resistance**
- ✓ **Maintain blending capacity**
- ✓ **Prevention of material build-up**
- ✓ **Cheaper than replacing internal liner**
- ✓ **Out perform traditional liners by a factor of 6 to 8 times**

Problem

Handling raw cullet is a very abrasive process for many glass bottle manufacturers, as the process begins by melting glass in a furnace which melts cullet (crushed, recycled glass), sand, soda ash, limestone, and other raw materials, during this process pipework used to convey raw material to the furnace is subject to high levels of wear and abrasion, eventually causing the structural shell of the pipe to deteriorate and perforate.

Solution

Many manufacturers are having to replace pipework every 6months or less, resulting in thousands in maintenance costs. Following on from a site visit for a well-known glass bottle manufacturer, Kingfisher's engineers recommended a trial is carried out on the pipework which would be lined with a combination of K-BAS and K-ZAS ceramic lining systems, so the end user could compare the performance of a lined pipe VS un-protected pipe.

Benefit

After comparing thickness test's on both sets of pipework after 4 weeks of production, it was clear the wear protected pipe had superseded the performance of the unlined pipe. Kingfisher were awarded the manufacture and installation of line one pipework, followed by a similar project carried out on the same plant for line 2, however due to the increased temperatures, it was recommended these pipes were installed with our 92p high alumina K-ALOX ceramic lining system.

Protecting Industry Worldwide

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