

**Industry:**

Bulk Cargo Handling

**Plant:**

Aggregate Logistics

**Lining System:**

K-ALOX

## K- ALOX Lined Transfer Chutes

### Key Benefits

- Improved wear resistance
- Maintain blending capacity
- Prevention of material build-up
- Cheaper than replacing
- Internal liner can be repaired in position
- Out performs traditional liners by a factor of 6 to 8 times



**Problem:** The 21 month planning, engineering and rebuild process was triggered by fire damage caused while in berth at the Glensanda super quarry in Morvern, north-west Scotland during July 2010. The damage to the structure of the vessel along with its materials handling equipment required Kingfisher to carry out lining work using its specialist wear and abrasion resistant K-ALOX lining system

**Solution:** The primary material used for the manufacture of Kingfisher's K-ALOX components is calcined alumina at over 90% purity. In order to achieve its fine molecular structure it is milled and dried to create a near submicron powder. It can then either be pressed or slip cast into almost any form and kiln hardened in a controlled process of heat treatment reaching temperatures of 1600°C which results in a material with characteristics of extreme abrasion, impact and heat resistance.

**Benefit:** Kingfisher's K-ALOX material is for the protection of plant against abrasion and erosion when bulk solids or by-products are being conveyed or processed by mechanical, pneumatic or hydraulic means. With a hardness rating of 9 on the MOHS harness scale, K-ALOX is ideally suited to counter both impact and sliding abrasion and erosion within the bulk solids handling or processing applications, making it ideal for bulk import or export terminals along with protecting the transfer systems on self-unloading vessels carrying hard aggregate such as crushed granite.

## Protecting Industry Worldwide

Kingfisher Industrial Ltd  
Whitehouse Road  
Kidderminster  
Worcestershire  
United Kingdom  
DY10 1HT

T +44 (0)1562 543108  
E [enquiries@kingfisher-industrial.com](mailto:enquiries@kingfisher-industrial.com)  
[www.kingfisher-industrial.com](http://www.kingfisher-industrial.com)

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