

**Britannia Zinc Ltd,  
Major Extension To Storage  
& Transfer Installation,  
Avonmouth.**



**Britannia Zinc chose Portasilo for a substantial extension to an existing silo and pneumatic transfer system for storage and transfer of various oxides blended with coal dust, at their Avonmouth, Bristol facility.**

**Two new 200m<sup>3</sup> oxide silos were provided, together with provision for a third when production requirements demand it. The silos were designed to facilitate filling by bulk delivery tanker and discharge into a common lean pneumatic conveying system.**

This system transfers material into a 102m<sup>3</sup> blend silo, fitted with explosion relief equipment, which is capable of storing material up to a specific weight of 2,400Kg/m<sup>3</sup>.

A 46m<sup>3</sup> pulverised coal silo, also with explosion relief, and with conventional screw dischargers, forms part of the Portasilo installation, and proportionately feeds into the lean phase pneumatic conveying system from the oxide silos.

Alternatively, the coal silo can deliver material direct to an existing screen installed above a PORTASILO SUPERFLO Dense Phase Pneumatic Conveying System.

It is therefore possible to proportion coal dust with oxide during the filling operation of the blend silo. This can either be by lean phase conveying from the two new oxide silos or from a bulk delivery vehicle, which can discharge direct to the blend silo. If the proportion of coal dust needs to be increased above that stored in the blend silo, coal can be added direct to the screen and blended in the PORTASILO Dense Phase system.

The blend silo feeds into a big bag system, or via a sieve into the PORTASILO SUPERFLO Dense Phase Pneumatic Conveying System by a variable speed ROTOFLO Discharger, with a flow rate from 3060 m<sup>3</sup>/hour.

This in turn feeds into any one of four receiving hoppers, each of which is fitted with a ROTOFLO controlled discharge of the product.

Commenting on the success of the Portasilo installation, a spokesman for Britannia Zinc said: "The system is performing well and is flexible enough to cope with any product, at whatever density, which we have required. This has been achieved through the use of the Patented ROTOFLO Discharger, which promotes first in, first out discharge of the product in a controlled manner."



# Portasilo<sup>®</sup>

## Bulk Handling Systems

**Find out how Portasilo can solve your bulk handling and storage problem by contacting The Sales Manager**

Portasilo Ltd. Huntington York, England. YO32 9PR.  
Tel. +44 (0)1904 624872 Fax. +44 (0)1904 611760.  
E-mail. [bulk@portasilo.co.uk](mailto:bulk@portasilo.co.uk) Website. [www.portasilo.co.uk](http://www.portasilo.co.uk)