



## BULK and MINERALS

Bulk handling and minerals normally involve different forms of unloading, transportation, storage and re-loading of raw material, usually in huge volumes. The recovery and recycling of, often large, quantities of spillages, let alone dealing with the dust generated, are one of the main reasons for companies to deploy our vacuum-based equipment in pursuit of simple and cost-effective solutions.

Wherever you see harbour areas, bulk conveyors or crushing plant in quarries and mining areas, you inevitably find spillages and large quantities of dust being generated. The same applies to silo storage areas and equipment, and loading stations and plant for trucks or rail wagons.

Our vacuum technology and systems are used everyday to recover valuable material and reduce the impact of dust on the local working environment.

### *Some typical applications include*

- Silo cleaning
- Area /roadway cleaning /and sweeping
- Cleaning around bulk conveyors
- Cleaning around crushing plants
- Recovery of bulk volumes in large volumes within processing or loading areas
- and many more





## CASE

### **BULK & MINERALS**

*DISAB's BagVac helps Imerys St Austell recycle 60 tonnes of kaolin a year*

Imerys' St Austell operation is using a DISAB BagVac to both improve its general housekeeping and recycle over 1 tonne of kaolin brick fragments a week, making the plant cleaner and more profitable to operate.

Imerys operates 115 mining sites and 29 different minerals or mineral groups, and in 10 years Imerys has become the world leader in industrial minerals. One of its largest calcining operations is based at St Austell, where the massive deposits of kaolin are first extracted and then conveyed into the neighbouring calcining plant. Here they are processed and packed for delivery to, in this particular plant's case, the investment casting, general refractories and kilned products industries.



Operations Manager, Brian Griggs-Trevarthen is responsible for the main calcining plant, a 140 metre long kiln that runs 24/7 turning kaolin slurry through a drying and extrusion process into kaolin bricks for crushing. The associated crushing plant runs 12 hours a day, 7 days a week, and it's where there are spillages that need to be cleared up.



Brian saw that instead of the waste kaolin fragments being shovelled into a barrow and dumped as waste, the manual handling of that waste kaolin could be transformed into almost effortless recycling and cost reduction, by sucking up the fragments and putting them back into the process.

Having a BagVac on site can save time and money. Not only is it labour saving but if the material that needs to be recovered is highly valued the machine will pay dividends. It will also improve health & safety.