



4B GROUP

OILSEED ELEVATOR UPGRADE

Capacity upgrade and hygiene improvements

Largest UK producer of rape / canola oil recently upgraded their main silo feed elevator to incorporate the advanced anti static AM Nyrim elevator buckets

Challenge

Largest UK producer of rape / canola oil required an increase in the tonnage capacity of the elevator along with steps to improve hygiene and reduce the risk of salmonella contamination throughout their production facility.

Oil and dust sticks to the traditional fabricated steel buckets building up and reducing capacity of the elevator. Over time these deposits grow and can reduce capacity of the buckets. These then start to break off in lumps and can contaminate the production process further along the refining process.



Solution

Replacing the mild steel buckets with like for like would have no benefit in that they were susceptible to damage and build up.

Proposing the newly developed AM Nyrin elevator buckets offered more robust, higher capacity throughput without needing to carry out any drive changes. The material is not damaged by knocks and bumps as it goes around the elevator.

The advanced Nyrin material is inherently antistatic without the need of additives to reduce surface resistivity.



Results

Increased throughput of the elevator.

Spark resistant elevator materials introduced into the process.

Low coefficient of friction and flexibility of Nyrin material stops any build of deposits on the buckets.

Improved hygiene throughout the production process.

Impact resistance of Nyrin less susceptible to damage than fabricated mild steel buckets.

