

## ***Ceramic pipe lining prevents wear during conveying of cocoa beans***

Wear-protection specialist Kingfisher Industrial, Cradley Heath, West Midlands, UK, reports that it has recently achieved significant success in minimising abrasion damage arising from the handling of foodstuffs including grain, cocoa beans, sugar and oil seeds. In one example, pneumatic conveying pipework used for transporting cocoa beans, prior to de-husking and roasting, had been manufactured and supplied incorporating a super tough K-ALOX ceramic lining material. The extreme hardness characteristics of these liners prevent wear from compromising the integrity of the system, while over time the liner surface becomes polished as a result of the throughput of beans, thereby creating a very low coefficient of friction.

Kingfisher explains that in many instances three-fold benefits derive from protecting plant in this way: wear protection can extend plant life, sometimes by as much as 20 years, the low-friction nature of the lining material itself reduces energy consumption and at the same time allows for enhanced material throughputs. [www.kingfisher-industrial.com](http://www.kingfisher-industrial.com)



***K-ALOX ceramic-lined pipe bend from Kingfisher Industrial used for conveying cocoa beans***