

Customer: Cathode ray tube manufacturer

Supervision: Henryk Lenartowicz – Chester Molecular – Radom

PROBLEM DESCRIPTION: Our client used special double-layer pipes for the pneumatic transfer of raw materials and kinescope glass melting kits. The outer layer is made of ordinary quality steel and the inner one - sinter with a hardness of 62 HRC. Due to the very large amounts of raw material sent, i.e. sand, dolomite, potash, soda and other additives (over 100 tons per day), the 3-meter-long pipe segments worn by abrasion had to be replaced frequently. The annual cost of replacing worn parts was very high. Tubes with ceramic lining were also wiped, and they are currently also regenerated with the Chester Molecular technology.

DESCRIPTION OF THE REPAIR: The regeneration of the worn pipe sections consisted in the use of Chester Molecular solutions. **The Chester Surface Protector C** coating and basalt fittings were used, which significantly reduced costs. The repair of a 3 m long pipe section is performed in a vertical position. Basalt blocks with a thickness of 20 mm are inserted in an appropriate manner. The space around the flanges is filled with **Chester Surface Protector C**, which also regenerates other worn parts of the drive system, such as Ø 80mm / Ø 250mm expansion bends, aerator nozzles and other parts.

ACHIEVED EFFECTS: Thanks to the introduction of Chester technology, the purchase of special pipes was completely stopped which significantly lowered operating costs

