

KOERNER *kk*[®]

kk[®]
PICKLING TANKS

World-wide the toughest



TECHNICAL FACTS

of pickling tanks



KVK-panels

The **KVK**-panel, the invention of our company founder Mr. Hans Körner, was developed specifically to build tanks. The KOERNER tanks are built from the **KVK**-panels, which have a unique sandwich-construction: consisting of an impact-resistant core of synthetic ceramic, coated on both sides with fiber-reinforced laminates, forming a tough, resilient inseparable composite.

The resulting structure has exceptionally high impact strength and resists even the most severe mechanical shocks.

Chemical resistance

KVK-pickling tanks are resistant to the chemicals used in most pickling processes, e.g. hydrochloric acid, sulphuric acid, hydrofluoric- and nitric acids and passivation agents.

Fire resistant

Scientific test reports from official test institutes have confirmed the significantly higher fire resistance of the **KVK**-panel, in comparison to PP and PE panels. The PP and PE plates burn quickly, producing burning drops, which accelerate the impact of the fire.

KVK-tanks are therefore essentially fire resistant, which means that a fire is unlikely to get out control in a pickling facility.



No welds

The complete integrity of the KOERNER **KVK**-tank is ensured, as the walls are manufactured as one continuous seamless piece over the entire length and width of the tank. This eliminates the need for welding, an important advantage when compared with tanks made from polypropylene sheets, which may contain many metres of welds.

Temperature resistant

KVK-panels have a much better performance at high temperature (e.g. with preflux- and passivation solutions) than PE or PP panels, which are classified as thermoplastic materials, and tend to become brittle when continuously exposed to high temperatures.

Easy, fast repairs

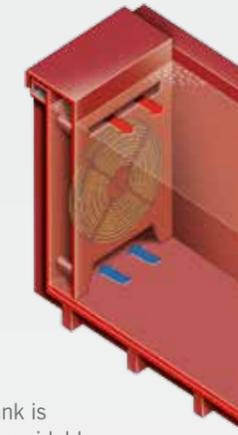
If a sharp piece of steel strikes the tank wall during dipping, only minor local damage occurs to the **KVK**-tank wall. This damage can easily be repaired by in-house staff.

After a short curing time, of approximately 4 hours, the tank can be refilled with acid.

Extra long life-time

Considering this very robust design our pickling tanks will easily reach a life cycle of 20 – 30 years without substantial maintenance costs. Pickling lines all over Europe and other continents, are ongoing daily proof that the **KVK**-tanks are the toughest and most reliable.

OPTIONAL EQUIPMENT



○ **KVK**-Heating plates

Provide a low cost heating system, fully integrated into the tank construction and protected against damage.

○ **KVK**-Top-Laminate

When the external structure of the tank is exposed to an environment where unavoidable contact with acid or corrosive liquids can occur, the tank can be additionally coated with a special joint free, fibre reinforced, acid proof resin, to further protect the outside of tank from acid spills and prolong its maintenance free life.

○ **KVK**-Protection plates

For the tank bottom and the end walls, make **KVK**-tanks practically maintenance free.

○ **Additionally hard wearingsurfaces**

In a thickness of 10 – 40 mm are applied on the upper tank rims and on the tank bottom. This is a strong protection against damages from jigs and carrier frames.

○ **KVK**-Fume extraction ducts

Can be integrated into the lateral tank walls, eliminating the need for external fume extraction ducting.

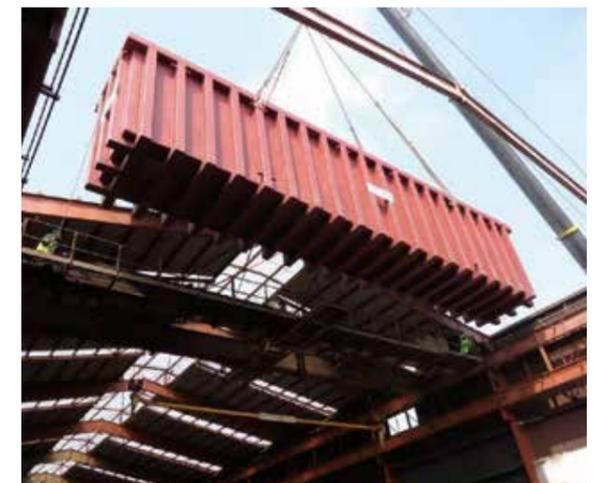
○ **KVK**-Bath circulation systems

○ **Individual extras**

Pump sumps, inlet and outlet flanges, overflow and level controls.

○ **KVK**-Laminate

Coating of concrete areas.





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