



Tank parks:

For more than 35 years tank farms made by Schwaben-Kunststoff are custom-built solutions providing quality, safety and economical operation according to the regulations of the VAWs (Order on the storage, filling and transfer of hazardous media).

As a certified workshop according to WHG § 19 I we are your partner for working out perfect solutions for you, comprising the following services:

- Expert consulting
- Engineering, production, fitting and start-up of complete tank farms
- Assistance for official approvals
- Fitting and piping systems

- Modern automatic control systems for tank farms
- Organization of transports and special transports
- Service contracts for the periodical inspection and maintenance of tank farms
- Adaptation respectively modification of existing tanks and plants to changed situations in conformity with the certificate of approval.

Subject to technical alterations



A sure grip on aggressives with the products from Schwaben-Kunststoff

- Approved storage tanks and retention tanks from PE and PP
- Helically wound tubes from PE and PP

- Design and construction of ready to operate tank farms for liquid chemicals
- Chemical apparatus construction
- Process engineering tanks
- Gas scrubbers
- Technical equipment for tanks
- Assembly of piping systems
- Maintenance of tanks and tank farms

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Storage tanks
made of helically wound
PE and PP

for the safe storage of hazardous
liquid chemicals



Storage tanks and retention tanks with note of approval in conformity with WHG (Federal German Water Act):

Storage tanks of helically wound tubes are made as vertical cylindrical tanks with flat bottom and conical or flat roof. The technique of helical winding ensures the production of a seamless homogenous tank cylinder with differently graduated wall thicknesses meeting exactly with the regulations of the note of approval. Bottom and roof are made of sheet material.

The materials exclusively processed are PE-80, PE-100 and PP Type 3 which are approved by the DIBt. Their excellent resistance against acids and lyes guarantee a long lifetime and durability of the tank.

Helically wound tanks of PE can be placed inside as well as outside of buildings because the material is weather and UV-resistant by adding carbon based UV stabilizers. Storage tanks of PP must be protected from UV-rays.

The configuration of tanks and retention tanks is based on the DVS, EN 12573, as well as on the regulations of the DIBt (List of Media). Each storage tank and each retention tank is produced in conformity with a tested static calculation. All weld seams are made by certified thermoplastic welders on most modern machi-



nes. Our production is being monitored by an internal quality and finished-product control as well as the external supervision by the TÜV Süddeutschland.

The conformity of product with the certificate of approval and the tightness are documented by a certificate of conformity and a works certificate according to EN 10203-2.1. This guarantees a constantly supreme quality of production and a durable product.

The high-quality technical tank equipment of Schwaben-Kunststoff is warranty for a safe and ecological operation of the tank obeying all relevant legal regulations.

Storage tank and retention tank with note of approval of the building supervisory authority:

Technical data:

Operating pressure: atmospheric
 Diameters possible: 1.500, 1.900, 2.500, 3.000 and 3.500 mm

Tank equipment:

Manway: according to medium: with elastic toggles, bolted gastight, or as safety pressure relief lid
 Nozzles: as threaded nozzle, flange socket or bolted socket

Options:

- Access ladder with service platform or pedestal
- Tank insulation
- Tank heating
- Mixer



The production:

The tank cylinders are made by our own production of helically wound tubes. By means of the extruder granular material is melted, and the tape-shaped extrudate is wound helically onto a pre-heated steel mandrel. Higher wall thicknesses are produced by winding a number of layers over each other. These are melting to a seamless homogenous cylinder wall as a basic product for a storage tank complying with utmost safety demands.

The rounds for bottom and roof are made accurately on a heated tool welding machine recording automatically the welding parameters. The fusion of cylinder and bottom is done by an automatic extrusion welding machine.

The tank roof is welded upon the cylinder and the nozzle equipment according to the customers' request is built in.

After passing the tightness test and the final technical test the conformity emblem of the TÜV Süddeutschland is fitted to the tanks' identification plate.

Note of Approval	Material	Capacity	Operating temp.	Installation	Roof
Z-40.21-10	PE-100	2.000 - 30.000 l	20° C	inside/outside	conical
Z-40.21-120	PE-80/PE-100	450 - 50.000 l	20 - 60° C (according to medium)	inside/outside	conical / flat
§ 19 h WHG	PP Type 3	450 - 50.000 l	20 - 80° C (according to medium)	inside	conical / flat