AGRO

Airtight Grain Silos

– Preserve the grain quality

TUNETANKEN

Airtight Grain Silos

Tunetanken Airtight Grain Silos ensure best conditions for storage of grain and harvest. Airtight Grain Silos maintain the quality of the grain high. In an airtight silo the grain lose their germination capacity and thus have a preservative and fermenting effect.

Our high-tech grain silos provide the most cost-effective storage, as you avoid the extra costs of drying. In an Airtight Grain Silo, the risk of vermin is minimised as there is no atmospheric oxygen present.

Our Airtight Grain Silos can be built according to your specific needs, e.g. in relation to filling and emptying equipment, dimensions, connection to other silos as well as colour choices. This ensures that Tunetanken Airtight Grain Silos fit into new surroundings as well as for your workflow. Airtight Grain Silos have smooth inner surfaces, which ensure optimal flow during grain extraction.

Benefits of Tunetanken Airtight Grain Silos:

- Fully moulded construction ensures an airtight silo, where the stored grain is protected from atmospheric oxygen.
- Grain with up to 22% moisture content can be directly filled into the silo.
- No drying costs.
- No extra costs for transportation.
- Less waste as the grain can be harvested 2-3 days earlier.
- Better appetite of the livestock as the grain smells fresh and contains less dust.
- Better straw quality due to earlier harvest.
- Better utilisation of the nutritional value of the grain.
- Minimises the risk of vermin as there is no atmospheric oxygen present.

Tunetanken Airtight Grain Silos are of the highest quality. Silos are made from fiber-reinforced composite - a unique material also used for production of highly strained products such as windmills, ships, aeroplanes, bridges etc.

A material that can also be reused.

Tunetanken Airtight Grain Silos are built with regard to installation, operation, maintenance, life cycle, environment.

Benefits

1. **Airtight Grain Silo**
   The silo is fully moulded and doesn't have bolted joints, which, along with a well thought out construction, ensures airtightness and preserves the grain during storage.
2. **Smooth internal surfaces**
   Smooth internal surfaces prevent the grain from sticking to inner walls, which facilitates cleaning and ensures a high level of hygiene.
3. **Fiberglass**
   Produced in fiberglass-reinforced composite, a robust and insulating material, that prevents condensation and corrosion.
4. **Blow-in pipe**
   The blow-in pipe and bending ensure more gentle filling of the grain. The blow-in pipe and bending are secured with a chain at the top of the silo.
5. **Pressure release valve**
   Pressure release valve allows to observe and regulate overpressure and underpressure; doesn't have mechanical parts that can rust.
6. **Top hatch**
   A top hatch with a hinged cover and a handwheel closure for grain filling and inspections.
7. **Airtight manhole**
   A manhole with a cover can be installed in order to facilitate cleaning and inspection of the silo.
8. **Ladder**
   Ladder with safety cage for a secure climbing to the top of the silo.
9. **Walkway**
   A walkway with guardrails provides security while being at the top of the silo.

The first silo has a ladder with a safety cage and a blow-in pipe installed. Second, third or more silos are joint by a walkway with guardrails and a pipe connection in between.

Benefits of Tunetanken Airtight Grain Silos

- Large programme of complete storage solutions for crops.
- Standard sizes ranging from 100 m³ to 210 m³.
- Fiber-reinforced composite material with high strength and long life cycle.
- Allows for storage of grain with up to 22% of moisture content.
- Chemical and corrosion resistance.
- Lightweight material and a fully moulded design ensure safe and quick installation.
- Smooth surfaces without profiles allow for optimal discharge.

10. Strong steel stand
A seel stand made from strong galvanised steel is fastened without bolted joints.

11. Manometer
Used when adding CO_2 as well as to monitor overpressure and underpressure in order to ensure that the silo is airtight.

12. Cone with a 45° slope
Fully moulded cone with an angle ensures complete discharge.

13. Bottom for screw conveyor
Suits for screw conveyors with different inclination and angles; with a cleaning lid.

Tunetanken

With more than 50 years of experience working with fiber-reinforced composite materials, their unique advantages and a large standard product programme we have developed our market position as the leading Danish manufacturer of storage tanks, industry systems and silos in composite materials.

Tunetanken markets a large and varied programme of products and facilities for various purposes as well as supplies a large range of industries including agriculture, industry, wastewater and water treatment for energy sector. We produce all our solutions in fiber-reinforced composite materials – the same materials that are used in the manufacturing of space shuttles, air planes and wind mills. With benefits as strength, corrosion resistance and long life cycle, composites are among the popular materials of the future.

Agro

Tunetanken offers a broad programme of products, facilities and systems for agriculture. We produce silos, tanks, airtight silos, grain handling systems, hay and grain drying systems, carcass covers, slurry systems, shelters, buildings, irrigation systems, barn inventory et al.

Most of our products are made with the incorporation of fiber-reinforced composite materials, which with their unique properties are extremely suitable for the demanding agricultural environment.

Modern composite materials are materials of the future. The innovative and unmatched technical material properties contribute greatly to the development of new sustainable products and solutions, which are necessary for a sustainable future.

Composit

Composite is derived from the Latin word »componere«.

Composite materials are made by combining two or more materials (physically not chemically), thereby creating a new material with specially intended and superior properties.

Technical properties of composite materials derive from the initial qualities and properties of the combined materials, the combination of the fabrics (matrix, reinforcement, hardener, additives), as well as, the production processes and conditions.

Possibilities are endless!

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