

Polymers & Compounding Technology – Worldwide



K.D. FEDDERSEN 
Think Value

K.D. Feddersen Ueberseegesellschaft mbH
Member of the Feddersen Group



People. Expertise. Trade.

K.D. Feddersen Ueberseegesellschaft mbH is the specialist for foreign trade, distribution and marketing of raw materials, chemicals and technical products within the Feddersen Group.

The Feddersen Group is an expanding company group with a focus on foreign trade, distribution and marketing of plastics, plastics production, mechanical engineering and stainless steel trade.

Founded back in 1919 as Norddeutsche Ueberseegesellschaft in Hamburg, the company has been trading all over the world with raw materials, chemicals and technical products for more than 90 years in the following business segments:

The “Polymers & Compounding Technology” division specializes in the worldwide distribution of raw polymers, technical compounds and additives for the plastics processing industry, as well as extrusion systems and peripheral equipment.



- Polymers & Compounding Technology
- Specialty Chemicals/ Plant Equipment
- Furniture Components/ Technical Products
- Agrochemicals

The branches and agencies of the company group in Europe, Asia, as well as Latin America provide us with relevant synergies, which we aim to pass on to our customers tailored to their needs.



“Acting on behalf of people – acting through global trade”

Karl Detlef Feddersen,
founder of the Feddersen Group 1949

The Feddersen Group

K.D. Feddersen Foundation

K.D. Feddersen Holding GmbH

| Plastics Distribution | Foreign Trade | Plastics Production | Mechanical Engineering | Stainless Steel Trade |
|--|--|--|-------------------------------------|---|
| K.D. Feddersen GmbH & Co. KG Hamburg (DE) · Paris (FR) | K.D. Feddersen Ueberseegesellschaft mbH Hamburg (DE) | AKRO-PLASTIC GmbH Niederzissen (DE) | FEDDEM GmbH & Co. KG Sinzig (DE) | Voß Edelstahlhandel GmbH & Co. KG Neu Wulmstorf (DE) |
| K.D. Feddersen Norden AB Värnamo (SE) | K.D. Feddersen do Brasil São Paulo (BR) | AF-COLOR Niederzissen (DE) | | Voss Stainless UK Ltd. Birmingham (GB) |
| K.D. Feddersen UK Ltd. Birmingham (GB) | K.D. F. Distribution (Shanghai) Co., Ltd. Shanghai (CN) | PolyComp GmbH Norderstedt (DE) | | Voss Stainless Iberia SL Barcelona (ES) |
| K.D. Feddersen CEE GmbH Vienna (AT) | K.D. Feddersen Vietnam Ltd. Ho Chi Minh City (VN) | BIO-FED Cologne (DE) | | Voss Inox Polska Sp. z o.o. Bydgoszcz (PL) |
| K.D. Feddersen Teknik Polimerler Tic. Ltd. Şti. Istanbul (TR) | | AKRO Engineering Plastics (Suzhou) Co., Ltd. Wujiang (CN) | | |
| K.D. F. Distribution (Shanghai) Co., Ltd. Shanghai (CN) | | AKRO-PLASTIC do Brasil Comércio de Polímeros de Desempenho Ltda. São Paulo (BR) | | |



Polymer sourcing

Whether raw polymers or advanced technical compounds, you benefit from our specialist expertise, product quality and the well established business relationships with renowned producers in the sector.



Individuality is our strength. Not only do we offer a wide range of products, from raw polymers to standardised and special compounds, but also have comprehensive knowledge of application-oriented use of polymers.

Our customers include globally active companies, as well as medium-sized plastics processors. Together

with our sister company AKRO-PLASTIC GmbH, we produce tailored made materials for large customers, such as automotive manufacturers with production sites on various continents, globally active OEMs from the electrical and electronics sector, as well as small batches for medium-sized processing plants.

Expert knowledge in all aspects of material testing and production expertise

We are one of the few medium-sized suppliers for plastics production and compounding processes to also offer the option of certified material testing in cooperation with

AKRO-PLASTIC. As a customer, you benefit from laboratory personnel with experience in production – experts, whose specialist knowledge is kept to a constantly high standard

through practice work and continuous training. The testing laboratory was accredited by the German Accreditation Council in accordance with DIN EN ISO/IEC 17025:2005.

Portfolio of polymers & compounding technology

High performance plastics

Engineering plastics

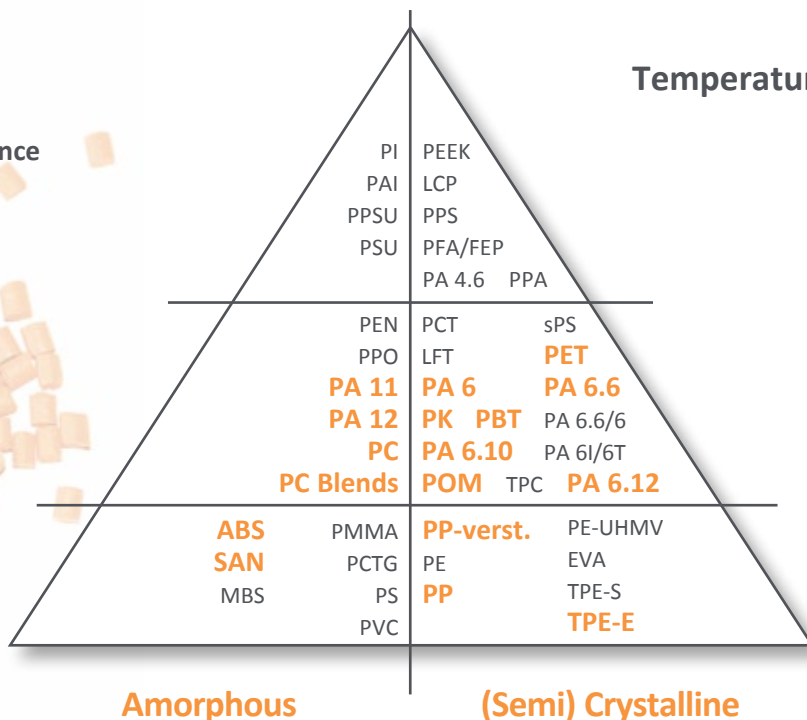
Commodity plastics

Temperature resistance

< 400 °C

< 150 °C

< 90 °C



Compounding technology

We are your contact partner for modern and flexible production plants and identical compound quality all over the world from a single source.

The cooperation between the individual company divisions within the Feddersen Group creates “added value” for our customers. Together with our sister company FEDDEM GmbH & Co. KG, we plan state-of-the-art “turn-key” plants to suit your requirements. We design turn-key systems with a team of project engineers based on the successful implementation of a compounding plants concept according to the rules for ensuring an optimised material flow. From the material feed to packaging the finished product and also including recipe development where applicable based on the wishes of our customers. Lean management for compounding plant operation is also taken into consideration, in addition to specific and application-oriented interests of the customer.

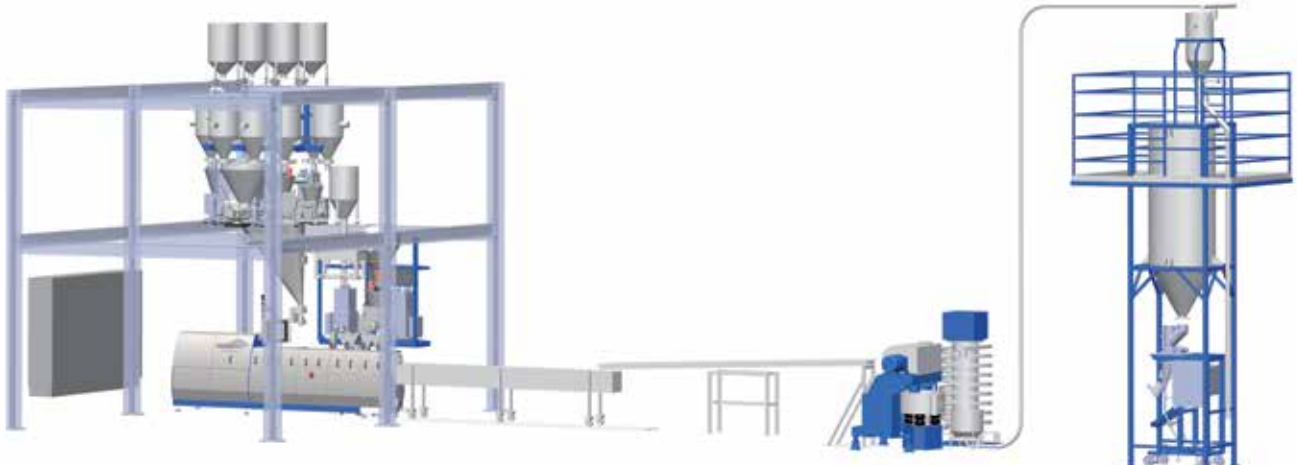
Alongside a wide range of peripheral devices, the heart of the compounding plant is the FED-MT (MT = Multi Task) co-rotating twin-screw extruder. The systems from FEDDEM are characterized by their high flexibility of use. Short set-up and cleaning times and the large product portfolio covered with the same screw

geometry help to enable economical production. Optimum mechanical values of the compounds through optimal machine configuration and, last but not least, the good scale-up and scale-down capability of the extruders, highlight the versatility of the FED-MT product line.

Individually usable peripheral equipment is also available. A side feeder can be converted to side vacuum degassing or side ventilation in just a few steps and the length of the extruder can be adapted to the process requirements via an extension

unit. The systems can also be equipped with variable pelletizing technology as desired, enabling the use of strand, underwater or water ring pelletizing.

The machines adapt to the product of our customers and not the other way around. We offer full-service and design, supply and commission complete systems all over the world.





Masterbatch expertise

AF-COLOR is the holistic solution provider for masterbatch applications within the Feddersen Group.

AF-COLOR has been active under its own name within the international company group since 2004.

As a branch of AKRO-PLASTIC GmbH, AF-COLOR has compounding know-how in research, development and production techniques, creating re-

levant synergy effects to enable competent implementation of customer requirements.

AF-Color® – Individual solutions for high demands

We offer an extensive masterbatch color range for many standard solutions. Our special service, however, is offering individual, customer-oriented solutions for high demands with regard to color and technology and providing them in

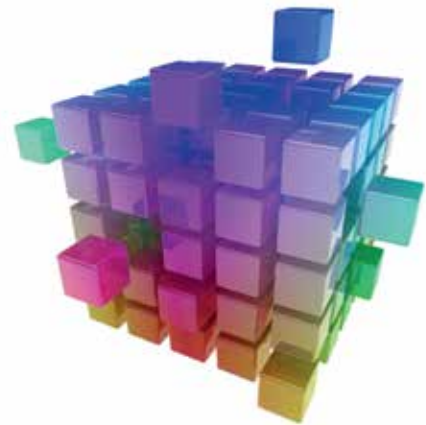
smaller quantities suitable for production. Masterbatches are offered and produced in all common carrier materials and engineering thermoplastics, including PA, PBT and PPS. Effects such as metallic, transparency, flakes, fluorescence, phos-

phorescence, grain, granite, nacre, interference, multicolor, marbling, wood effect, thermochromism are also included in the scope of supply.

AF-Carbon® – carbon black, for us, just as important as the colors of the world

With the AF-Carbon® product range, we offer our customers an extensive portfolio of technically demanding carbon black concentrates. In the

various industries, different carbon blacks are used for different applications.



AF-Complex® – customised masterbatch performance

AF-Complex® represents a complete additive program of finely tuned performance comprising the following applications:

- Process and long-term thermal stabilisation
- UV stabilisation
- UV filters/IR filters
- Lubricant/slip functions
- Antistatic equipment
- Antiblocking and matting
- Nucleation/clarifier
- Propellant
- Biostatic agents/hygiene
- Process stabilisation
- Antifog
- Laser (labeling, welding)
- Impact modifier
- Flame protection

AF-Eco® – sustainable products for a more environmentally-friendly approach

The coloration of biopolymers is growing in importance and is accomplished today almost exclusively using color masterbatches made up of

polymer carrier materials and corresponding colorants. For its bio-based color and additive masterbatches, AF-COLOR uses exclusively

bio-degradable and bio-based polyester as the carrier matrix. AF-Eco® has the Vinçotte “OK compost” certification.

We look forward to meeting with you!



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