

SmartSeal[®]

Food & Beverage Industry Sealing Solutions

Engineering for motion





Kastas Quality

In Food & Beverage Industry at SmartSeal Speed

By combining SmartSeal technology with engineering power, Kastaş offers **the most accurate design and material solutions** for every project and application.

Thanks to the speed of SmartSeal, the product needed meets the customer with the guarantee of "delivery within 24 hours". System downtimes caused by unexpected failures are resolved as soon as possible. Lost time and cost increase that will occur with the cessation of production is prevented.

SmartSeal products created with the right design engineering, the right production technology and the most ideal processing of food-grade materials, provide the privilege of reliable food production with Kastaş Quality.

SmartSeal®

Speed: It produces from scratch in minutes with CNC machining technology.

Cost: Since molded production is not made, it brings cost advantage in low quantity product needs.

Precision: Thanks to advanced software and special processing technology, it provides measurement precision.

Diversity: It offers fast sealing solutions by making special production to the desired design and size.

SmartSeal® Advantages



Delivery in 24 hours



Customized production for customer



Stock variation up to 1500 mm diameter



Specialized materials for different conditions and media



Low total solution cost at right product usage





Engineering Support by 40 Years Application Experience

With more than 40 years of experience in the production of sealing elements with experience in R&D, investments in quality management processes, and material science knowledge, Kastaş meets the expectations of the food industry.

Kastaş offers a wide range of products with its application engineering experience, R&D Center testing capabilities, material expertise and specially developed certified materials.



Compatible With Different Chemicals FDA Approved Materials

All processes from production to packaging are carried out under maximum safe conditions, thanks to FDA-approved materials suitable for different chemical resistances and food contact under harsh working conditions. Kastaş is a solution partner for food manufacturers' sustainable production quality with the wide range of FDA-approved raw material stocks specific for the food industry, is a solution partner for food producers in sustainable production quality.





Food & Beverage Industry Sealing Solutions



JPu9408 Chemically Compatible Polyurethane

Advantages:

- Wide usage in food machines
- Superior strength against machine cleaning chemicals
- Low volumetric change in oiled and fat food materials and mineral oils

Working Temperature: -30 °C to 115 °C

Certification: FDA

Colour: Purple



JPu9406 Low Temperature Polyurethane

Advantages:

- Wide usage in low temperature applications
- Very good mechanical strength

Working Temperature: -50°C to 105°C

Certification: FDA

Colour: Blue



JPu9407 High Performance Polyurethane

Advantages:

- Wide usage as standard material in hydraulic applications
- Perfect strength in high temperatures and hydrolysis resistance

Working Temperature: -30°C to 125°C

Certification: FDA

Colour: Red



JPu5701 Hard Polyurethane

Advantages:

- Hard PU material
- High mechanical strength
- High wear and pressure resistance

Working Temperature: -30°C to 90°C

Certification: FDA

Colour: Blue





Food & Beverage Industry Sealing Solutions



JPM9901 Polyacetal (POM)

Advantages:

- Preferable in food applications
- Usage in guiding element and backup ring production
- Wide working temperature range

Working Temperature: -60°C to 100°C

Certification: FDA

Colour: White



JPA9901 Polyamide (PA)

Advantages:

- Very good dimensional stability in working temperature range
- Dry working ability
- High wear resistance

Working Temperature: -30°C to 105°C

Certification: FDA

Colour: White



JPK9001 Standard Peek

Advantages:

- Usable in dynamic and static applications
- High temperature resistance
- High mechanical resistance
- High extrusion and pressure resistance
- Hydrolysis resistance
- High wear resistance
- Low coefficient of friction

Working Temperature: -50°C to 250°C

Certification: FDA

Colour: Cream



UP9902 High Mechanical Resistant UHMW Polyethylene

Advantages:

- High mechanical resistance
- Low coefficient of friction
- Higher wear resistance than UP9901
- High impact and shear resistance
- Chemical resistance
- No affect by humidity and water

Working Temperature: -200°C to 90°C

Certification: FDA

Colour: Blue



UP9901 UHMW Polyethylene

Advantages:

- High mechanical resistance
- Low coefficient of friction
- Perfect wear resistance
- High impact and shear resistance
- Chemical resistance
- No affect by humidity and water

Working Temperature: -230°C to 80°C

Certification: FDA

Colour: White





Food & Beverage Industry Sealing Solutions



JEP8502 Ethylene Propylene Rubber (EPDM)

Advantages:

- Usage in food applications where compatibility with hot water, steam, ozone, dilute acids and alkaline solutions is required
- Wide working temperature range

Working Temperature: -50°C to 100°C

Certification: FDA

Colour: White



JNB8502 Nitrile Butadiene Rubber (NBR)

Advantages:

- Compatible with food
- Ability to work in many fluid types
- Easy installation in static and dynamic applications

Working Temperature: -22°C to 100°C

Certification: FDA

Colour: White



JFK8502 Fluoro Elastomer (FKM)

Advantages:

- Suitable for food applications
- High temperature resistance
- High chemical resistance

Working Temperature: -20°C to 210°C

Certification: FDA

Colour: Brown



JSL8501 Low Hardness Silicon

Advantages:

- Compatible with food
- Wide usage as static sealing
- Wide working temperature range

Working Temperature: -55°C to 210°C

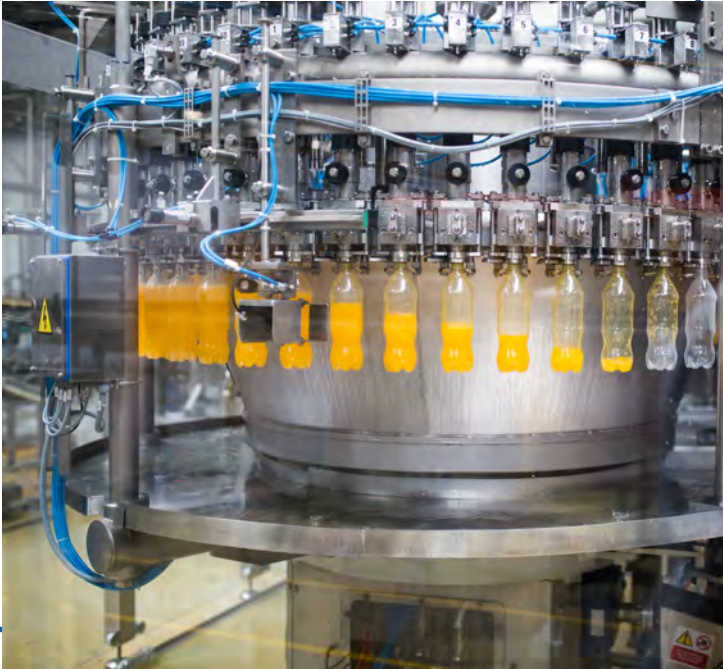
Certification: FDA

Colour: Red





Food & Beverage Industry Sealing Solutions



JFK8001 Fluoro Elastomer (FKM)

Advantages:

- Suitable for food applications
- Detectable by metal detector and X-Ray

Working Temperature: -30°C to 200°C

Certification: FDA

Colour: Blue



JEP8001 Ethylene Propylene Rubber (EPDM)

Advantages:

- Suitable for food applications
- Detectable by metal detector and X-Ray

Working Temperature: -40°C to 135°C

Certification: FDA

Colour: Blue



JPU9410 Polyurethane

Advantages:

- Detectable by metal detector and X-Ray
- Suitable for food applications
- Suitable with EU No 1935/2001 and EU No 2023/2006 standards

Working Temperature: -20°C to 90°C

Certification: FDA

Colour: Blue



**Kastas Sealing Technologies**

Atatürk Plastik O.S.B. 1.Cadde No:6
35660 Menemen / İZMİR / TÜRKİYE
Tel : +90 232 397 60 00
Fax : +90 232 502 25
smartseal@kastas.com
www.smartseal.com.tr

Kastas Sealing Technologies Europe GmbH

Robert-Bosch-Str. 11-13,
25451 Quickborn / GERMANY
Tel : +49 4106 809 280
Fax : +49 4106 809 28 49
europe@kastas.com
www.kastas.com

