



 **PERFORMANCE ENGINEERED COMPONENTS**
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Teflon® coatings for the Food Processing Industry

DuPont™ Teflon® industrial coatings have a long history of use in the food processing industry, where the combination of release, high-temperature capability and safety have enabled their use in a wide variety of food preparation and packaging operations.

TFLON® COATINGS BRING THE FOLLOWING BENEFITS TO THE FOOD PROCESSING INDUSTRY:

- Nonstick performance
- Reduced cleaning cycle times
- Safeguards food purity
- Reduced chemical usage for cleaning
- “Universal” chemical resistance
- Lower equipment cost than exotic and/or highly polished metals
- Increased productivity
- Faster product throughput
- Lower maintenance costs
- Reduced tare range

DuPont Teflon® industrial coatings can be used over a broad temperature range (-270°C / -454°F to +260°C / 500°F). They can be applied to a wide variety of substrates, including carbon steel, stainless steel, aluminum, glass and ceramics, where they prevent interaction between the food and the substrate while simultaneously providing a high-release surface. Neither sticky foods nor biomaterials adhere well to equipment coated with Teflon®, so cleaning is easier, quicker and requires less cleaning agents.

Many manufacturers take advantage of the properties of Teflon® in the food processing industry.

Following are some examples of how Teflon® industrial coatings can be applied to improve your plant efficiency and product quality.

- **Sugar producers** coat their sugar cube molds with Teflon® because of its nonstick, easy-clean, wear and temperature resistance properties.
- **Cheese manufacturers** eliminate the problematic build-up of dried cheese crust by coating cheese processing augers with Teflon®. This results in a reduction of downtime and labor costs.
- **Fast food restaurants** reduce costs by using a durable coating of Teflon® on aluminum egg scrambler pans.

- **Potato chip manufacturers** get fewer rejects and more uniform slices by reducing residue build-up by coating the knives used to cut potatoes. This also leads to reduced downtime, cleaning and maintenance costs.
- **Fruit companies** processing a variety of pineapple products replace cast iron bearing housings with a version coated with Teflon® to solve three problems: (1) corrosion caused by acidic juices, (2) daily lubrication with food-grade oil (3) high replacement frequency due to longer life of the housings.

Teflon® industrial coatings used for these applications comply with FDA regulations governing components of coatings for direct food contact.

Typical applications of Teflon® coatings:

| Coated Items | Properties of Teflon® | Benefits |
|-----------------------------|---|---|
| BREAD & BUN PANS | Nonstick High temperature | Less cooking oil Higher yields Eliminates glazing Fewer "cripples" |
| WAFFLE GRIDS | Nonstick High temperature | Easy clean Uniform product color Higher yields |
| CHEESE AUGERS | Nonstick | Easy clean Rapid clean up Higher yields |
| HOPPERS/BINS | Nonstick Abrasion resistance | Higher yields Accurate dispensing |
| PASTA CUTTERS | Nonstick Low coefficient of friction | Easy clean Accurate cuts Higher yields |
| WEIGHING EQUIPMENT | Nonstick Abrasion resistance | Accurate dispensing Rapid filling Rapid clean up |
| COOKIE MOLDS | Nonstick Abrasion resistance High temperature | Rapid clean up Higher yields |
| HEAT SEAL BARS | High temperature Nonstick Abrasion resistance | Easy clean |
| CONVEYORS (Flat or Wire) | Nonstick Abrasion resistance | Easy clean Higher yields |
| FAST FOOD GRIDDLES | Nonstick Chemical resistance | Rapid clean up Tolerates strong cleaners Cooks evenly |
| CHEESE MOLDS | Nonstick | Reliable shape Easy clean |
| POTATO CHIP CUTTERS | Nonstick Abrasion resistance | Easy clean Long life Accurate cuts Higher yields |
| ICE CREAM SCOOPS | Nonstick | Easy clean Rapid dispensing |

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