Case Study 3: Chemical Resistant, Durable and Long-lasting Trays

Customer SIC: 2899  NAICS: 325998

Customer: Manufacturer of pellets that are used as a gasoline additive. The pellets are formed from a mixture of powered chemicals, placed on trays and baked in high-temp ovens.

The Need: Replace very expensive porcelain coated steel trays with durable, reliable, chemical resistant trays. (Over a six month period, almost 300 porcelain trays had corroded beyond use.)

The Solution: MFG Tray replaced the customers weaker and very expensive porcelain coated steel trays with the Model 617003 in a chemical resistant formula. After testing the MFG Tray Model 617003 in the customers work environment, it was found that MFG Tray chemical resistant composite material was the solution. The lighter weight tray allows better handling and reduced the time it took loading carts. The lighter weight trays reduced back strain and the smooth edge on the trays reduced the risk of injury from the sharp edges of the corroded metal trays. The chemical resistant resin prevents failures from mineral acid fumes at high temperatures. The composite material is impervious to cutting oils, detergents, mild acids and alkaline solutions and able to handle an operating temperature range of -60° to 250°F.

Benefit Summary:
- Non-corrosive chemical resistant trays
- Metal to FRP Conversion
- High ROI
- Safer to utilize, no sharp edges or corroded corners
- Increased efficiency – quicker and easier handling