

Material solutions for high speed dairy equipment

TRENDS

Manufacturers of dairy equipment are constantly looking for possibilities to increase production speed and hence for wear and temperature resistant materials. Higher sanitation needs result in the use of high concentration of cleaning agents. The materials used in dairy equipment need to comply with 3-A Sanitary Standards.

ANSWERS

We have a wide range of material solutions to address these demands. Our high-performance plastics are designed for self-lubricating situations. They are resistant against plenty of cleaning agents. Our Food Grades include plastics with food compliant composition according to 3-A Sanitary Standards.

BENEFITS

The result is less downtime, less maintenance and improved performance. Our food grade products are pre-qualified food compliant materials, cutting costs and saving time.

TIVAR H.O.T. Milkshake filling & packaging chain guider

Challenges: The chain guider should assure a smooth sliding of the chain and therefore needs to offer excellent wear resistance towards the chain. To assure a better cleaning, the temperature during cleaning has been increased. The material solution should meet all of these requirements.

Solution: A housing of TIVAR H.O.T. was selected for its excellent wear resistance combined with a superior temperature resistance compared to regular PE-UHMW.

Benefits: Excellent resistance against cleaning chemicals and food contact compliant composition according to 3-A Sanitary Standards for Multiple Use Plastic Materials, Number 20-24 resulting in time savings during food compliancy certification process of the equipment.

Ertalyte Buttermilk filling piston

Challenges: A piston is used to pump a milk-based liquid into bottles. It is sliding along the cylinder walls and has also the function of sealing during the dosing process.

Solution: Ertalyte was chosen for this application because it offers an excellent dimensional stability combined with good wear resistance.

Benefits: When using Ertalyte there is no additional need for external lubrication. Ertalyte has a food compliant composition according to EU directive 2002/72/EC and 3-A Sanitary Standards for Multiple-Use Plastic Materials, Number 20-24. This is shortening the compliancy certification process, saving costs and increasing productivity.

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