

Bearing material for packaging and food applications

Motion plastics specialist Iigus has announced that its iglidur A181 material can now be ordered online in more than 110 dimensions up to 50mm diameter, with or without flange, with no minimum order quantity. The tribopolymer meets the requirements of FDA and EC directive 10/2011, achieving low wear rates especially in combination with corrosion-resistant shafts.

“Since its introduction, iglidur A181 proves to be a real all-rounder in this industry,” says Robert Dumayne, dry-tech director at Iigus. “In bottling and packaging plants, in particular, this high-performance, blue plastic is ideally suited for rotary as well as pivoting movement, in particular for stainless steel shafts.”

In addition to standard bearing dimensions, iglidur A181 is now offered in 14 different bar stock sizes, so prototypes and small batch production are possible. Alongside this, Iigus can produce special, custom parts for the food and packaging industry, where there are any requirements for low friction components.

www.igus.co.uk



New bearing grease is 100% food derived

NSK has developed a new grease lubricant that is 100% derived from food grade ingredients. The company says the development represents a breakthrough for any plants where machinery, production equipment or devices come into contact with foods, pharmaceuticals or cosmetics. Furthermore, the new H3G grease is suitable for any application that could benefit from the lubricant's additional strengths of water resistance and low torque.

Typical applications range from food machinery such as shakers, fillers, centrifugal separators, bottling machines and

conveyors, through to pharmaceutical, cosmetics and medical process devices, including pumps. Importantly, the environmentally friendly grease conforms to the highest international standards for safety regarding products that may come into accidental contact with food.

The new NSK eco-friendly grease, which is petroleum-free, exceeds the standards of lubricants currently used widely in such applications. These are generally based on rapeseed oil and other vegetable oils that contain many non-food ingredients. Such greases can also have performance limitations, with lower oxidative stability, resulting in lubricity and durability issues.

In contrast, NSK's grease is made entirely from food-based ingredients including the base oil,



thickening agent and additives. For instance, food-grade vegetable oil is used for its excellent heat tolerance as a base oil, while the thickening agent contains food additives with a fine 3D network for good base oil retention.

The lubricant is also formulated with food additives that further enhance the durability of the base oil, delivering a grease that offers enhanced oxidative stability and one-third lower friction loss (torque) than existing comparable products. Further advantages are less leakage and longer service life, even where there is exposure to water. From an environmental perspective, the grease is naturally biodegradable and produces no toxic waste, making it both non-polluting and fully sustainable.

www.nsk-europe.com

Levelling feet for hygienic applications

WDS has introduced a new range of white based levelling feet with nickel-plated or stainless steel nuts and anti-microbial plastic bases, meeting the needs of conveyor systems and machinery used in food processing applications and other hygienic environments.

The nickel-plated or stainless steel nuts resist corrosion even under high pressure or chemical wash-down conditions, while the smooth white polymer bases are free from nooks and crannies where dirt and debris can accumulate. The bases are also infused with an anti-microbial agent that is effective against the growth of bacteria.

Meeting the needs of food processing machinery, and equipment that needs levelling on uneven surfaces, these new adjustable feet are available with round or extended bases, in rest-on or bolt-down versions. The white bases



are available in diameters of 40mm, 60mm, and 80mm, with nut sizes from M8 to M20 and lengths of 50mm,

100mm, 150mm, and 200mm. The new levelling feet support safe working loads from 150kg to 400kg.

These new white anti-microbial levelling feet extend the broad range of levelling feet, adjustable machine feet and mounts available from WDS. They allow the user to ensure the application or machine is always mounted correctly and levelled on uneven surfaces. WDS plans to introduce a complementary range of blue levelling feet to complete the range in the next couple of months. The company's range also includes anti-vibration feet in numerous styles and materials.

All 'foot' products are indexed on the WDS website, with full technical details including dimensions, tolerances, photographs, technical drawings and 2D and 3D models, the latter being free to download by registered users.

www.wdsitd.co.uk