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FOCUS ON FOOD SAFETY
INTERNATIONAL FAIRS: PREVIEWS AND REVIEWS
TOP TRENDS ON JUICE MARKETS

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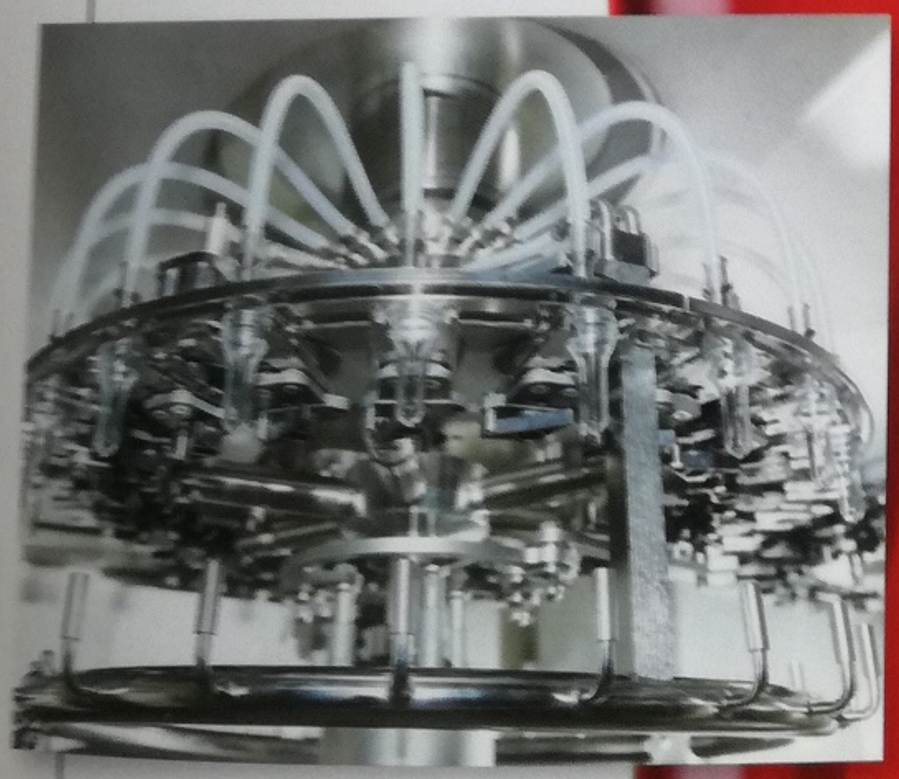
How to Produce... BEVERAGES



- CHOOSING THE RIGHT FIBRES
- TRAY PACKAGING
- SWEETENERS AND FLAVOURS

Resealable anticorrosion bags

EcoShield® VpCI®-226 Film and Bags are 100% nitrite-free yet very effectively protect packaged items from corrosion, rust, and tarnish. In addition, they contain no phosphates, or halogen-based materials, are non-toxic and recyclable. The enhanced printing capabilities offered by EcoCortec's proprietary films and papers permit OEM branding while consistently retaining the packaging's protective capabilities. EcoCortec's brand packaging speeds up logistics processes including shipping, receiving and processing through customs. To meet recycling import/export standards, the environmentally friendly packaging is available in recyclable and degradable materials.

EcoCortec® recently installed a high-tech converting line which produces short runs of high-quality patented EcoShield VpCI®-226 and Corrshield VpCI®-126 heat-sealable and ziplock bags at its facilities in Croatia. Th films protect metal parts from all of corrosion including rust, tarnis stains, white rust and oxidation fo to five years. They replace conver forms of rust protection and enab significant savings.

This increase in capacity to more t one million VpCI® bags per day ma the manufacturer the largest produ of anticorrosion packaging in Europ

Yoghurt drinks with filled alginate balls

Inner Mongolia Yili Industrial Group Co. Ltd. has been presenting two new UHT yoghurt drinks. The two Baoquzhu-branded beverages, packed in combiblocSmall 250 ml from SIG Combibloc, contain alginate balls filled with juice, which burst in the mouth when gently chewed. The result: an extra portion of fruity drinking pleasure. These yoghurt drinks are available in apple and strawberry flavours.

The innovative beverages are filled using the drinksplus solution from SIG Combibloc, which Yili has already used for other trendy UHT beverages in aseptic carton packs. The drinksplus solution makes it possible to fill products containing up to 10% solid pieces using standard beverage filling machines from SIG Combibloc, such as drinks with nata de coco and now also with alginate balls with juice inside them. The standard filling machines are fitted with an easy-to-install upgrade kit for this purpose. It consists of valves, valve stems and filling nozzles, which are tailor-made for ensuring the best possible product flow when filling beverages with particulates. Wide straws with a diameter of six millimetres are provided to make sure that these products can be easily drunk from the packs.

The design used for the carton packs features bright, jazzy colours combined with black: a modern presentation that stands out on retail shelves.

Available in strawberry (left) and apple flavours (right): yoghurt drinks with alginate balls

Photo credit: Yili Industrial Group Co. Ltd

Polypropylene resins for bottles and containers

Saudi Arabia's National Petrochemical Industrial Co. (NATPET) offers polypropylene resins in various grades suitable for use in the food packaging industry.

Teldene R25MLT is a highly clarified random PP copolymer that can be used for injection stretch blow moulded bottles. This resin also is suitable for a wide variety of thin-walled injection moulding applications including food-storage containers.

Designed for both in-line and off-

H03TF is a nucleated polypropylene homopolymer that contains an anti-static agent. This grade has very good melt strength and dimensional stability combined with isotropic shrinkage control. It provides excellent clarity for shallow and deep-drawn thermoforming applications thanks to its use of Hyperform HPN-600ei, an organoleptic-friendly nucleating agent from specialty chemicals supplier Milliken & Co. Typical applications include fruit baskets, trays, trans-

impact copolymer Teldene B20ML offers an excellent stiffness/impact balance as well as good isotropic shrinkage control and organoleptic properties. By virtue of its higher crystalline temperature, the peroxide-free B20ML grade improves cycle times and reduces running cost in the moulding machine.

The use of Milliken additives in these resins ensures compliance with REACH and ISO regulations, better nucleation, excellent transparency and shrinkage control, and a good balance of tensile/impact properties, while also helping

Filling, closing and 'can' technology

Optima has expanded its machine range to include new entry-level solutions such as the flexible OPTIMA FM1 and CM1 filling and closing machines. These new systems can also be used as stand-alone units. The OPTIMA FM1 for liquid to pasty products uses two different pump systems to ensure a wide range of applications, high filling accuracy and very gentle product handling. The OPTIMA FM1 processes a filling volume capacity of up to 1,000 ml at a maximum output of 90 pieces/min. For closing technology, the FM1 can be configured or expanded for a variety of closure types such as stoppers, screw caps and press-on caps. The machine is also available with a second workstation. All controls are located beneath the machine plate for GMP compliance. Output is up to 45 pieces/min.

One continuous process from filling to final packaging

Optima's new cardboard InlineCans are manufactured, filled, closed and, if required, processed through final packaging, all in one continuous process for substantial storage and logistic benefits. The high quality and custom design present a prestige package at the point of sale. Using a similar approach, Optima's SoftCan packaging is a film can that is produced from roll-stock.

Photo credit: OPTIMA packaging group GmbH

Metal moisture barrier you can recycle

Cortec® Corporation has developed a new Super Barrier version of its EcoShield® VpCI®-144 paper for protecting metal parts from corrosion. EcoShield® VpCI®-144 Super Barrier combines the corrosion protection of VpCI® paper coating with a high-gloss water-based barrier coating that prevents moisture from reaching metal parts wrapped inside the paper. Under recent ASTM E-96 testing, EcoShield® VpCI®-144 Super Barrier exhibited a water vapour transfer rate (WVTR) highly comparable to that of polycoated paper. Past testing has also shown EcoShield® VpCI®-144 Super Barrier to rival the moisture barrier properties of polycoated paper and commercial waxed paper. This is an important advantage since poly and wax coatings are not recyclable through normal channels and therefore create an environmental problem. In contrast, EcoShield® VpCI®-144 Super Barrier paper is environmentally safe and fully recyclable/repulpable into other types of paper products such as boxes, cardboard, and other corrugated materials. EcoShield® VpCI®-144 Super Barrier additionally eliminates the package contamination found with other competing VCI/VPI papers because it is made from the highest quality neutral natural kraft paper without the use of chlorine or other bleaching chemicals. It contains no nitrites, phosphates, silicones, chromates, other heavy metals, or toxic products. Cortec's patented VpCI® Technology has transformed the way metals are protected in an enclosed package. There are no chemical concentrations to calculate and no chemical tanks or application systems to maintain. Simply wrap your product in the paper, fold the edges together, and tape the paper in place as needed. The VpCI® coating on the paper vaporises and reaches all metal surfaces to provide complete corrosion protection. The unique inhibiting action of VpCI® molecules forms a very thin and very effective protective layer that does not alter the appearance of products or require removal upon opening the package.