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| The innovative processing belt for superabsorbent-polymer manufacturing |

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[LEAD]

Hanover, 19 April 2016 – Belting specialist Forbo Movement Systems has added a processing belt for superabsorbent-polymer production to its range.

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The new AE 18/H S0/S8-NA white FDA (906758) belt was developed for use in making superabsorbent materials (polyacrylate). Superabsorbent polymers is the name given to plastics that can absorb extremely large quantities of polar liquids, e.g. water or urine, relative to their own mass. In addition to babies’ nappies, these superabsorbent polymers are also found in adult and feminine hygiene products.

Challenging production conditions (high temperatures) and the chemical components, combined with the exothermic reaction, place exceptional demands on the processing belt. The silicon-coated AE 18/H S0/ S8 MT-NA white FDA belt sets new standards in this production environment.

Due to the aramid-reinforced, high-tech fabric that's very strong, the new belt scores top marks and exhibits extremely low belt elongation at high temperatures. Excellent mechanical tensile strength and the high level of chemical resistance on the part of the silicon coating (0.8 mm thick) guarantee the belt will last a long time. Mechanical fasteners that stay firmly in place are used to splice the belts. But the traditional and virtually invisible Z-splice is also easily possible.

The new Siegling Transilon belt is resistant to acrylic acid and is heat-stable up to 180°C. The belt offers good hydrolytic stability and is also troughable. Energy-efficient operation is possible due to the low friction coefficient between the slider bed and the low-friction underside. Slider beds and rollers can provide support for the belt on the return side.

Any belt width up to 3100 mm max can be supplied.

Forbo Movement Systems (previous called Siegling) employs more than 2,000 people globally in nine production sites and 25 international companies. Forbo conveyor and power transmission belts are used in nearly all industries, but also in the retail and services sectors. Key competencies are the food and packaging industries, logistics and airports, as well as paper, print and raw materials industries. The company was founded in 1919 in Hanover. Since 1994 the company has belonged to the Swiss company Forbo International. The products have been marketed since 2007 under the “Forbo Movement Systems” master brand.

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