

Sustainable home care – greener products in new formats



Sustainability is paramount to the future of the personal and home care industries. High water content negatively affects the carbon foot print for transporting these products. Single-use plastic packaging and the usage of harmful and harsh chemicals demands an innovative series of environmental-friendly solutions. To tackle these challenges Jungbunzlauer proudly presents its offerings.

Tableting technology

With sustainability reaching into home and personal care, tablets, with their convenient applications, have begun to take off.

They are easy to transport and use, allow great dissolution when required and are therefore growing in consumer preference. From a manufacturer point of view there are various challenges regarding tablet stability and the disintegration into the ready to use end product.

Jungbunzlauer citric acid and functional acids are the main ingredients in our effervescent systems. They are available in a variety of granulations to meet desired functionality in tableting formats.

- Extensive know-how for Jungbunzlauer acids concerning compressibility and dissolution in effervescent tablets
- Maximum acid level for high acidity applications
- Improved storage stability by using Jungbunzlauer CITROCOAT® N
- CITROCOAT® EP combines good compressibility with improved storage stability





Effervescent powder technology

Effervescent systems typically comprise citric acid and sodium bicarbonate. Formulation is challenging as they are highly sensitive to moisture and the two components are needed in the right ratio to ensure rapid reaction during dissolution.

CITROCOAT® EP is an agglomerated effervescent compound bringing **CITROCOAT® N** and sodium bicarbonate together in the exact right composition to create a:

- Highly reactive but storage stable effervescent compound
- Excellent compressibility and good processing properties
- Reduced separation potential enabling precise dosing of effervescent components

Thickening

Products like dish washing detergents or liquid soap typically have a high viscosity. Formulating such products in a solid form is highly demanding, as dissolution and viscosity build up typically require high shear rates for proper dispersion.

Special **Jungbunzlauer xanthan gum** grades enable the formulation of solid powders which create such highly viscous products once mixed with water.

- High performance, bio-based hydrocolloid
- Exceptional rheological profile
- Excellent dissolution behavior



Loading

In water-free formulations the challenge is to convert liquid ingredients into powder formats. **Jungbunzlauer's trisodium citrate anhydrous** can act as a carrier for various liquids and can therefore be used in versatile water-free applications.

- Water-soluble and biodegradable carrier
- 2 in 1 functionality, carrier and chelating agent
- Remains free flowing and excellent compressibility after loading



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