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PRESS RELEASE

Number 24

WACKER Presents New Silicone Emulsion for Formulating Particularly Mild Shampoos

Munich, April 04, 2017 – The Munich-based chemical group WACKER is showcasing several novel products for the cosmetics industry at in-cosmetics 2017. The focus is on the silicone fluid emulsion BELSIL® DM 5700 E. It enables the manufacture of particularly mild shampoos, promotes foam formation, and has a noticeable conditioning effect even in low quantities. Another new product is the silicone elastomer gel BELSIL® EG 6000, which was designed for use in skin care and decorative cosmetics. This gel leaves skin feeling extremely soft and silky smooth. The amino silicone microemulsion BELSIL® ADM 8105 E will also be unveiled to a wide audience of professionals. It makes hair noticeably silkier and easier to comb. The new phenyl silicone fluid BELSIL® PF 22 expands WACKER's portfolio of silicone fluids to include a traditional gloss agent. In-cosmetics 2017 takes place in London from April 4 to 6.

BELSIL® DM 5700 E, the finely dispersed emulsion of a silicone fluid in water, is one of the highlights that WACKER will be presenting at in-cosmetics. This low-viscosity, milky-white liquid can be used to formulate shampoos that both clean and condition hair. Unlike conventional silicone emulsions, BELSIL® DM 5700 E contains an emulsifying system that consists of an alkyl polyglucoside and sorbitan laurate. These nonionic surfactants are based on renewable

raw materials and make the new emulsion extraordinarily mild and gentle on the skin. Consequently, BELSIL® DM 5700 E is suitable for use in sulfate-free shampoos.

The new silicone emulsion also has a positive effect on foaming: a shampoo formulated with BELSIL® DM 5700 E generates a fine-pored foam that is pleasant to the touch, and so meets consumers' requirements.

During shampooing, the miniscule droplets of silicone fluid in the new emulsion, which are just 300 nanometers in size, are deposited selectively on the hair fibers. In this way BELSIL® DM 5700 E achieves a more effective silicone deposition than less finely dispersed silicone emulsions and consequently offers greater efficacy. BELSIL® DM 5700 E makes the hair smooth, supple and easier to comb, while also leaving it feeling pleasantly soft.

BELSIL® EG 6000 – Silicone Elastomer Gel for Silky-Smooth Skin

WACKER is also presenting the silicone elastomer gel BELSIL® EG 6000. Used as an active agent in decorative and moisturizing cosmetics, the product leaves skin feeling extremely pleasant, something that cannot be achieved in this form with conventional silicone elastomer gels. The gel also ensures that the preparations spread evenly on the skin. The participants in the panel tests, which were performed in WACKER's applications lab described the novel skin feel as supple, mild, non-greasy, silky, and dry.

BELSIL® EG 6000 is based on a traditional addition-curing silicone elastomer and contains a linear volatile silicone fluid as its liquid component. This is where the new product differs from conventional

silicone elastomer gels, which use either a cyclic or a non-volatile silicone fluid as the liquid base. BELSIL® EG 6000 can significantly improve the skin-sensory and rheological properties of moisturizing creams, mascaras and deodorants.

BELSIL® ADM 8105 E – Amino Silicone Microemulsion for Shampoos and Conditioners

The amino silicone microemulsion BELSIL® ADM 8105 E, which expands the Munich-based chemical Group's portfolio of silicone emulsions, will also be presented to a wider specialist audience for the first time. BELSIL® ADM 8105 E is characterized by its excellent conditioning properties. Hair treated with this product is silky and easy to comb. Typical applications are conditioners, hair masks, and shampoos. The new microemulsion can also be used in transparent shampoo formulations.

BELSIL® PF 22 – A Traditional Gloss Agent

Similarly showcased for the first time at this year's in-cosmetics is the product BELSIL® PF 22, with which the Munich-based chemical group is expanding its silicone fluid product range to include a traditional phenyl silicone fluid. This colorless, low-viscosity fluid has a refractive index of 1.46, greater than that of polydimethylsiloxanes. Therefore, BELSIL® PF 22 can act as a gloss agent for various cosmetic formulations.

Preparations formulated with BELSIL® PF 22 give a high-quality impression both visually and to the touch, can be spread easily and do not feel so tacky. When applied, the phenyl silicone fluid forms a thin fluid film, which not only improves gloss, but also makes the hair or skin soft and supple while at the same time developing water

repellency without affecting skin breathing. The phenyl silicone fluid thereby reduces, for example, the tackiness of sunscreen formulations while increasing their water resistance.

Visit WACKER at in-cosmetics 2017, Booth EE28

More information about WACKER at in-cosmetics 2017:
www.wacker.com/special-effects

PHOTOS:

Using the new hair conditioning agent BELSIL® DM 5700 E, shampoos generate a particularly fine-pored foam that feels creamy. Even when used in low amounts, it has a highly pronounced conditioning effect. (Photo: Wacker Chemie AG)

BELSIL® EG 6000 is a transparent, colorless silicone elastomer gel. As an additive in moisturizing creams, mascaras or deodorants, the product imparts a very pleasant skin feel. (Photo: Wacker Chemie AG)

Note:

These photos are available for download at:
http://www.wacker.com/pressreleases

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The company in brief:
WACKER is a globally-active chemical company with some 17,200 employees and annual sales of around €5.4 billion (2016).
WACKER has a global network of 26 production sites, 22 technical competence centers and 51 sales offices.

WACKER SILICONES
Silicone fluids, emulsions, rubber and resins; silanes; pyrogenic silicas; thermoplastic silicone elastomers

WACKER POLYMERS
Polyvinyl acetates and vinyl acetate copolymers in the form of dispersible polymer powders, dispersions, solid resins and solutions

WACKER BIOSOLUTIONS
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WACKER POLYSILICON
Polysilicon for the semiconductor and photovoltaic industries

Siltronic
Hyperpure silicon wafers and monocrystals for semiconductor components