## MEDIA INFORMATION

# Kulzer enlarges its 3D printing system with new materials

Hanau, 20.07.2020. **To facilitate the customers' workflows and improve their efficacy, Kulzer extends its resin range for its 3D Print platform. With dima Print Cast ruby the German manufacturer brings a universal casting material to market that can be used for all cast dental restorations. dima Print Stone encompasses a range of 3D printable resins for models to benefit from in-house digital production while delivering the look, feel and gypsum-like texture of traditional model materials.**

The dima Print materials were developed in a R&D cooperation with the parent company Mitsui Chemicals (MCI) and thus unite decades of polymer expertise and deep knowledge of 3D printing. "Together with customers and well-known dental technicians, we have been further developing our 3D printing system. Kulzer's dental and polymer know-how and MCI's broad chemical expertise result in a deep knowledge that enables us to drive 3D printing in dentistry to the best of patients and dental professionals," states Kulzer CEO Marc Berendes.

**dima Print Cast ruby** is applicable for all dental CAD-to-cast restorations, like partial frameworks, crowns and bridges, whether they are made with press ceramics, gold alloys or non-precious metals. With one material for all cast indications, customers reduce their physical stock and do not need to switch the resin in the vat. Following residue free burnout, the surfaces of the final product come out very smooth, and our customers never have to worry about distortion: The material remains ridged both during cleaning and within the investment material. The resin is very fluid yet avoids sedimentation and allows for the creation of flexible clasps, as well as highly precise detailing and crown margins.

The **dima Print Stone** resins are characterized by exceptional precision for all model types, a highly detailed surface and traditional gypsum-like, as well as newly designed colors to ensure the accurate modeling a naturalistic appearance. The matte surface of dima Print Stone models prevents reflection and the handling properties are remarkably similar to traditional materials.
Kulzer offers two resins: dima Print Stone beige, the "all-rounder", offers the look, feel and handling that dental technicians are accustomed to.
dima Print Stone teal is developed for orthodontic appliances from wire bending to the

production of aligners using the deep drawing method. Models made with dima Print Stone teal feature high surface hardness, a homogeneous, matte finish and are easy to grind if needed.

The silicon-free **dima Print Gingiva Mask** material delivers natural aesthetics and makes it easy to design highly detailed gingiva masks with clearly visible contours and emergence profiles. After printing, the material can be adjusted manually via grinding. The elastic material is highly tear resistant and flexible.

Kulzer's printing materials are part of the cara Print system – Kulzer's semi-automated 3D printing process that offers unique benefits to improve the efficiency and profitability of dental labs. All materials and components of the cara Print system are perfectly harmonized and can still be integrated into existing workflows. Kulzer Chief Technology Officer, Dr. Sascha Cramer von Clausbruch, explains: "Customers can rely either on our complete fully integrated and validated 3D Printing system or they can integrate parts of it into their existing workflow as our range of solutions is modular."

**Figures**

Fig. 1: dima Print Cast ruby is applicable for all dental CAD-to-cast restorations, like partial frameworks, crowns and bridges.

Fig. 2: dima Print Stone beige (implant model) with the silicone-free dima Print Gingiva Mask.

Fig. 3: dima Print Stone teal is developed for orthodontic appliances from wire bending to the production of aligners using the deep drawing method.

Fig. 4: Kulzer's printing materials are part of the cara Print system – Kulzer's semi-automated validated 3D printing process.

## About Kulzer

As one of the world's leading dental companies, Kulzer has been a reliable partner for all dental professionals for more than 80 years. Whether aesthetic or digital dentistry, tooth preservation, prosthetics or periodontology, Kulzer stands for trusted and innovative dental products. With optimal solutions and services, Kulzer aims to support its customers in restoring their patients' oral health in a safe, simple and efficient way. For this purpose, 1500 employees work in 26 locations in the fields of research, manufacturing and marketing.

Kulzer is part of the Mitsui Chemicals Group. The Japanese Mitsui Chemicals Inc. (MCI) based in Tokyo owns 131 affiliates with more than 13,400 employees in 27 countries. Its innovative and functional chemical products are as much in demand in the automotive, electronics and packaging industries as in environmental protection and healthcare.

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