

Free-flowing direct  
compression with  
superior adsorption  
capacity? Why not!

Dry binder granulate with  
optimized flowing properties,  
superior adsorptive capacity  
for moisture protection, an  
easy to use tableting agent

## Product Information

### CompactCel® SIL

**BIOGRUND's** one-step tableting agent **CompactCel® SIL** provides an easy to use, granulated and homogeneous compound of Silica and PVP/NaCMC or HPC/NaCMC, which acts as a perfect dry binder granulate.

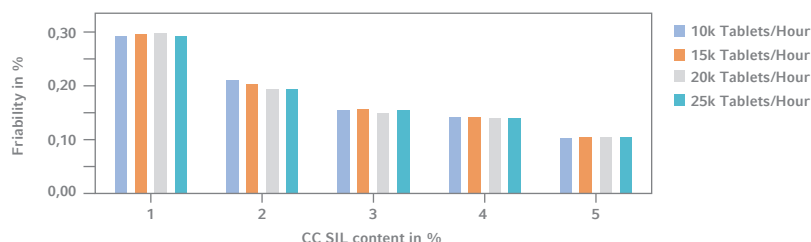
With **CompactCel® SIL** it is possible to produce direct compressed tablets containing excipients and a high content of active ingredients (which are normally incompressible) in one step. A wet granulation step to isolate the active ingredients with an excipient is in most cases not needed. Furthermore liquid ingredients can be converted into powders.

The use of Silica within the compound improves free flowing properties, gives better compaction and a superior adsorptive capacity for increased stability (by adsorbing surrounding liquids or moisture) and an improved dissolution profile.

**CompactCel® SIL** increases the hardness and improves the friability of the tablet at lower compression forces. **BIOGRUND** recommends using 2–5% within the core formulation to achieve best results. The product can be used for pharmaceutical and nutritional applications.

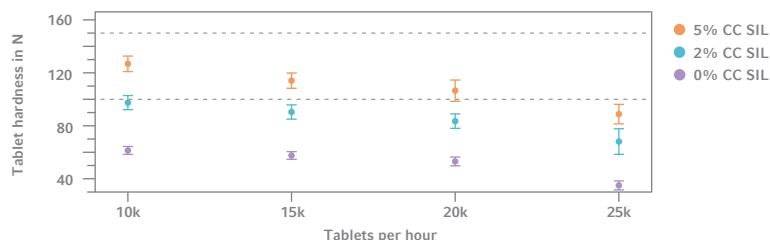
Regulatory and quality aspects: All **CompactCel® SIL** formulations are developed to meet the official regulatory requirements of the user's country for pharmaceutical products and for nutritional or dietary supplements.

Fig. 1: Tablet Friability Comparison (n=10)



Direct compressed formulation: 50% Glucosamine-Sulfate 2KCl, MCC (42.5–47.5%), 2% NaCMC-CL, CompactCel® SIL (HPC/NaCMC/Silica, 0.0–5.0%) and 0.5% Mg-St. Using already 1% of the dry binding agent in the tablet mass causes friability values lower than 0.3%.

Fig. 2: Tablet Hardness Comparison (n=10)



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## General Information on BIOGRUND

Since 1999, **BIOGRUND** has been developing and producing special powder preparations for film coating, sugar-coating, colouring and tableting, which are used in pharmaceutical products, food and nutritional supplements and cosmetics all over the world. These one-step products minimize and simplify working times for all applications. Easy, fast and reliable!

### Contact us

**BIOGRUND GmbH**  
Neukirchner Str. 5  
65510 Huenstetten  
Germany

www.biogrund.com  
info@biogrund.com

T +49 (0) 6126-952 63-0  
F +49 (0) 6126-952 63-33

**BIOGRUND US, Inc.**  
23465 Rock Haven Way  
Unit 125  
Sterling, VA 20166  
USA

T +1 (703) 665-2147  
F +1 (703) 665-2148

Global Partner

**BONUTRA AG**  
Beim Bahnhof 5  
6312 Steinhausen  
Switzerland

www.bonutra.com  
info@bonutra.com

T +41 (0) 41-747 14-50  
F +41 (0) 41-747 14-55

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