

# LAARMANN<sup>®</sup>

*Innovators in Solids*

## SYNTHETIC DIAMOND POWDER MICRO BALL MILL



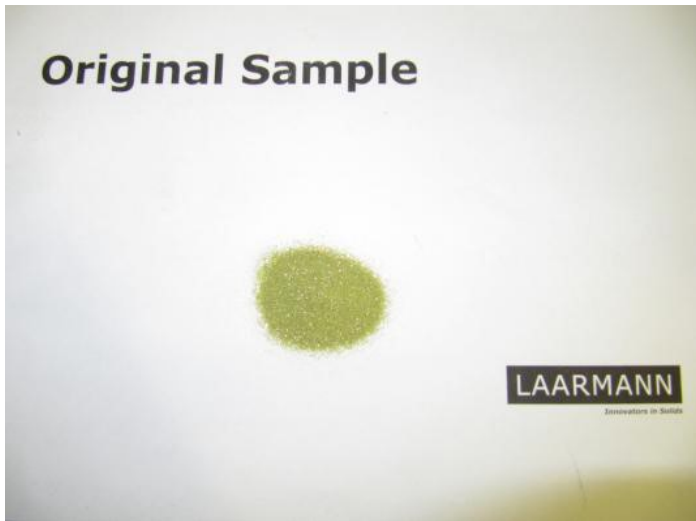
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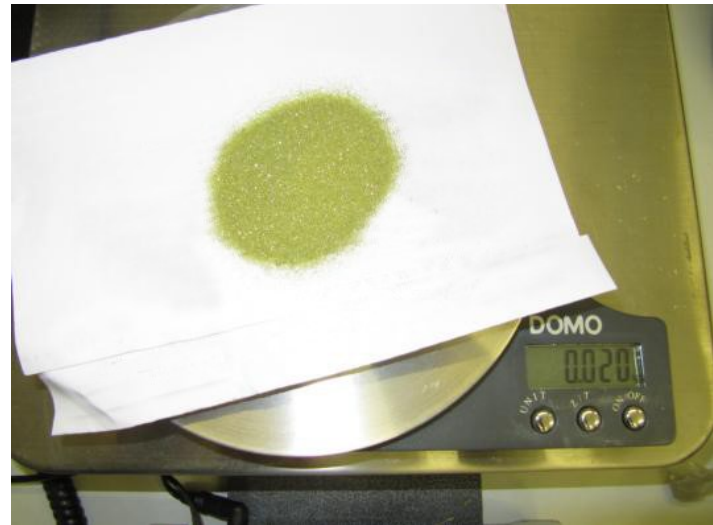
# SYNTHETIC DIAMOND POWDER APPLICATION

## Product description:

Synthetic Diamond Powder 150-250 $\mu$ m



Original sample material with feed size of up to 250 $\mu$ m



Amount loaded to the Mill 20 grs. Grinding time about 2 minutes.



Amount loaded to the Mill 20 grs. Grinding time about 2 minutes.



Result after 2 minutes of dry grinding about 30  $\mu$ m

**We have done two more tests with 4 minutes of grinding in dry condition and we took one Portion and mixed the sample with water to perform a wet milling.**

### Grinding parameters:

Grinding system: Micro Ball Mill Type Lab Wizz

Accessories: 50ml grinding bowl of stainless steel

Sample material: Synthetic Diamond Powder

Product feed size: **up to 250  $\mu$ m**

Grinding time: between 2-4 minutes Sample amount: 20 gr per process

Result after sieving: < 20  $\mu$ m

### Recommendation

In order to grind and to homogeneously mix hard samples in about 120 secs. we recommend the use of the Lab Wizz under the above