



## KETTLITZ-Talcubex Patent No. 2905955

Talcubex is a non-dusting talc which is treated with Kettlitz-Haftubex in such a manner that the fine dust-causing particles of talc are bound. It is still an almost free-flowing powder which provides an excellent coating on rubber compounds, batches and profiles.

Talcubex fulfils the requirements of the controlling authorities, which do not allow a quartz content of more than 0.15 mg/m<sup>3</sup> air at the working place. Talcubex is practically free of asbestos or quartz particles.

The difference between an unprepared talc quality and Talcubex is shown in the enclosed dust measuring records No. 203 and 204. Talcubex contains just 0.008 mg of pollutants per m<sup>3</sup> air, whereas the untreated talc has 0.178 mg/m<sup>3</sup> air. Even the overall fine dust content of 0.382 mg/m<sup>3</sup> was drastically reduced in Talcubex compared to untreated talc with a content of 8.89 mg/m<sup>3</sup> air.

### Average analytical data of the untreated talc grade

Appearance	greyish, non-dusting powder
SiO <sub>2</sub>	52 %
Al <sub>2</sub> O <sub>3</sub>	5.4 %
FeO	2.5 %
TiO <sub>2</sub>	0.3 %
CaO	0.9 %
MgO	30.8 %
Na <sub>2</sub> O	0.06 %
K <sub>2</sub> O	0.03 %
Cu	≈ 40 ppm
Mn	< 40 ppm
Asbestos	0 %
Quartz (< 5 μm)	< 1
Storage Stability	3 years under suitable storage conditions
Packing	paper bags containing 25 kg net

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### Dust Measurement Record No. 203 - untreated talc

Company: Hoffmann Mineral GmbH measured by: Rothbauer  
Locality: Dust-chamber evaluated by: Rothbauer  
Action: Measurement of dust  
Product: talc, unprepared, 15 kgs

#### Method of Test MPG II

Pressure: Pa – 0.46 kp/cm<sup>2</sup> Pe – 0.36 kp/cm<sup>2</sup>  
Suction time from 14.15 h till 15.05 h Suction capacity 47 l/min.  
Duration of measurement: 50 min. Rate of flow: 2.35 m<sup>3</sup>  
Filter weight empty 65.2 mg Total fine dust G 8.89 mg/m<sup>3</sup>  
full weight 86.1 mg Quartz content 2 %  
(smaller than 5 my)  
difference 20.9 mg Time factor\*\* 1  
Harmful component\* 0.178 mg/m<sup>3</sup>

### Dust Measurement Record No. 204 - Kettlitz-Talcubex

Company: Hoffmann Mineral GmbH measured by: Rothbauer  
Locality: Dust – chamber evaluated by: Rothbauer  
Action: Measurement of dust  
Product: Talcubex, 15 kgs

#### Method of Test MPG II

Pressure: Pa – 0.46 kp/cm<sup>2</sup> Pe – 0.45 kp/cm<sup>2</sup>  
Suction time from 15.45 h till 16.35 h Suction capacity 47 l/min.  
Duration of measurement: 50 min. Rate of flow: 2.35 m<sup>3</sup>  
Filter weight empty 63.2 mg Total fine dust G 0.382 mg/m<sup>3</sup>  
full weight 64.1 mg Quartz content 2 %  
(smaller than 5 my)  
difference 0.9 mg Time factor\*\* 1  
Harmful component\* 0.008 mg/m<sup>3</sup>

$$* \text{ Harmful component} = \frac{G \times \text{Quartz content}}{100 \times \text{Time factor}}$$

\*\* Time factor = 1 = 8 hours working time – 8 hours dust development  
0.5 = 8 hours working time – 4 hours dust development

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