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/m³ 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^3 air, whereas the untreated talc has 0.178 mg/m^3 air. Even the overall fine dust content of 0.382 mg/m³ was drastically reduced in **Talcubex** compared to untreated talc with a content of 8.89 mg/m^3 air.

Average analytical data of the untreated talc grade

Appearance	greyish, non-dusting powder
SiO_2	52 %
Al_2O_3	5.4 %
FeO	2.5 %
TiO_2	0.3 %
CaO	0.9 %
MgO	30.8 %
Na_2O	0.06 %
K_2O	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

Dust Measurement Record No. 203 - untreated talc

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

measured by: Rothbauer
evaluated by: Rothbauer

Method of Test MPG II

Pressure: Pa – 0.46 kp/cm^2 Pe – 0.36 kp/cm^2

Suction time from 14.15 h till 15.05 h
Duration of measurement: 50 min.
Filter weight empty 65.2 mg
full weight 86.1 mg
difference 20.9 mg
Harmful component* 0.178 mg/m^3

Suction capacity 47 l/min.
Rate of flow: 2.35 m^3
Total fine dust G 8.89 mg/m^3
Quartz content 2 %
(smaller than 5 my)
Time factor** 1

Dust Measurement Record No. 204 - Kettlitz-Talcubex

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

measured by: Rothbauer
evaluated by: Rothbauer

Method of Test MPG II

Pressure: Pa – 0.46 kp/cm^2 Pe – 0.45 kp/cm^2

Suction time from 15.45 h till 16.35 h
Duration of measurement: 50 min.
Filter weight empty 63.2 mg
full weight 64.1 mg
difference 0.9 mg
Harmful component* 0.008 mg/m^3

Suction capacity 47 l/min.
Rate of flow: 2.35 m^3
Total fine dust G 0.382 mg/m^3
Quartz content 2 %
(smaller than 5 my)
Time factor** 1

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

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