

WE HAVE EVERYTHING UNDER ONE ROOF

*Complex
supplier*



Own deposits



Mining



Processing



Logistics

MINIMAL CO2 FOOTPRINT

Min dependence on external energy suppliers
(high energy self-sufficiency)



SCAN QR TO FIND OUT MORE

STEEL, POLYESTER ADHESION

ADVANCED TECHNOLOGY, WIDE MINERAL BASE

Pure, very fine kaolinite based silicate
Minimised content of quartz
No metal impurities contamination (iron, lead)

Vulcolin OT76M

Standard

Vulcolin BC

Fine milled

Vulcolin 15AP

Ultra fine milled

VULCOLIN 15AP

Description:

layered silicate mineral, min. 93% kaolinite, very low abrasiveness, high plasticity

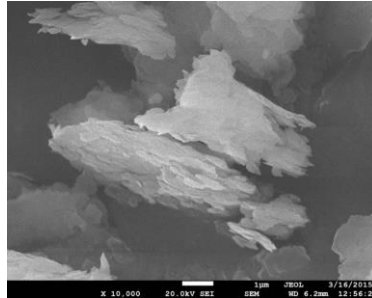
X₅₀: 1,5µm (Laser graph method),

BET: 22-24m²/g

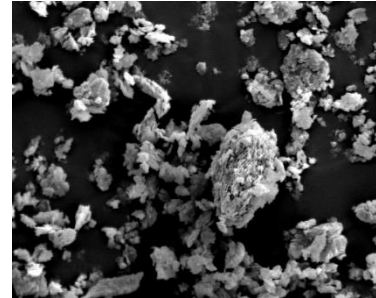
Application:

rubberizing compounds

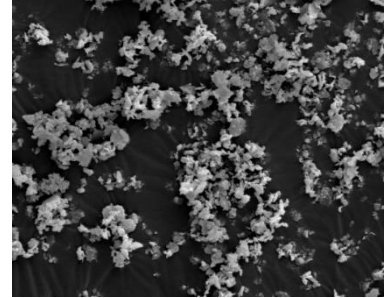
- steel cord
- steel wire



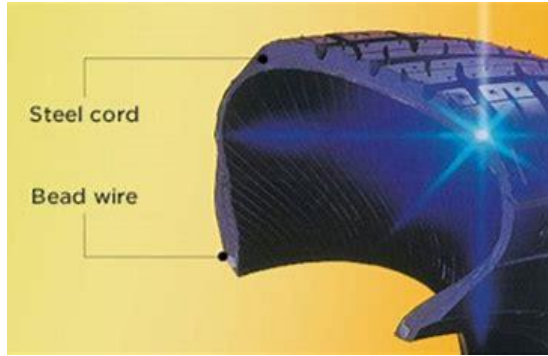
Standard milled



Ultra fine milled



IMPROVE RUBBERIZING & REDUCE SCRAP



- steel "green" coating stability
- wire & steel cord separations

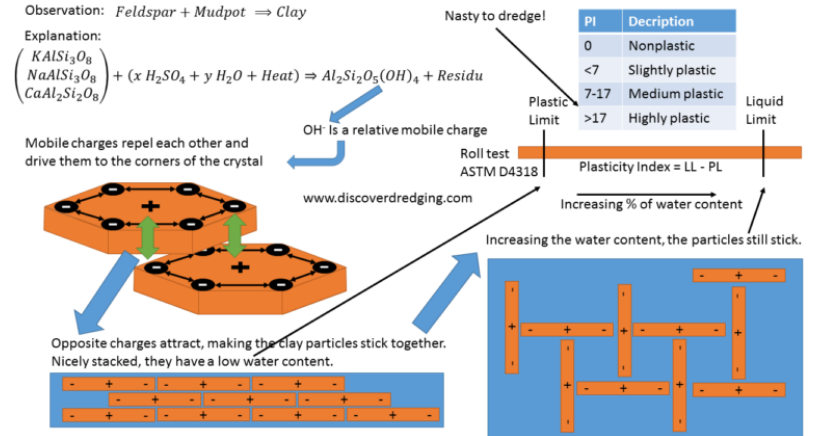


PFEFFERKORN'S PLASTICITY INDEX

MOLD FOULING describes the negative influence of some silicate fillers in the production
Some of the white fillers filled compounds tend to stick strongly to the mold/die metal surface



“The plasticity in the processing of ceramic materials is a fundamental property since it defines the necessary technical parameters to convert a particulate ceramic body to a component with a given shape by application of pressure.”



Metal sticking tendency is directly related to the PLASTICITY of the filler and can be used in the opposite way to improve the green tack of rubberising compounds to steel. There is a high physical attraction between clay plates and smooth metal surface and also between clay plates itself. Delaminated, originally layered silicates rebuild their structure in the process, under pressure the silicates create a highly orientated layer. The steel adhesion force grows with pressure and perfect dispersion of the filler.

High plasticity clay increase the green adhesion and coating stability of rubberizing compounds for steel cord & steel wire

Silicate (clay) requirements:

Plasticity index min. 40 (PFEFFERKORN PLASTICITY INDEX)
Purity approx. 95% of Kaolinite (round shape particles below 2%)
Ultra fine milling; X50 close to 1 μ m

Formulation:

40 - 60 phr, partly replace of carbon black, viscosity has to be adapted
Suitable mixing process (dispersion)
Replacement/Reduction of tack resins

Rubberizing:

Dry and smooth surface of rubberized metal
Thin, controlled layer of compound
High pressure in rubberizing process

SOCIAL AND ENVIRONMENTAL RESPONSIBILITY

Reclamation of our environment and human resource development is an integral part of our business.



Reclamation of nature at Bozicany quarry



SEDLECKÝ KAOLIN
CENTURIES OF QUALITY