



Centuries of Quality

Since

1892

MINIMAL CO2 FOOTPRINT

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



SCAN QR TO FIND OUT MORE

TIRE & HOSES INNERLINER TIRE TUBES CABLE & INSULATION



Patented dry separation technology.

Kaolinite and Mica based silicate mixture
Minimised content of quartz
No metal impurities and contamination (iron, lead)

Vulcolin W50

Standard

Vulcolin W50E

Higher insulation properties

VULCOLIN W50

Mineralogy: natural mineral filler mixture, delaminated layered silicate mainly

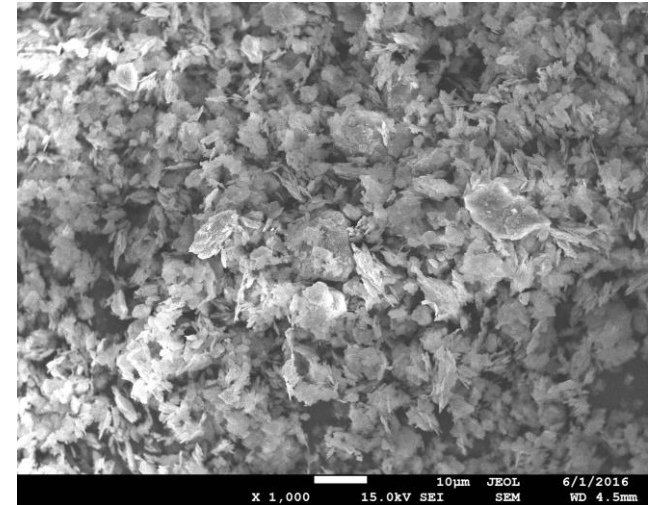
70% layered silicates; kaolinite, mica
30% round shape fillers; feldspar mainly

Patented production technology, dry separation and milling

Chemically inert, crystalline,
low affinity to water,
low level of water in the structure

Application:

- Innerliner (tire and hoses) compounds
- Insulating and tube compounds
- High durability, protection compounds



VULCOLIN W50 (W50E for CABLE)

Dry Separation Technology

Patented production technology by Sedlecký kaolin, a.s.

All material is dried at once

No water added

Air separation of unwanted particles

Use of fluid bed separator

High shear particle delamination

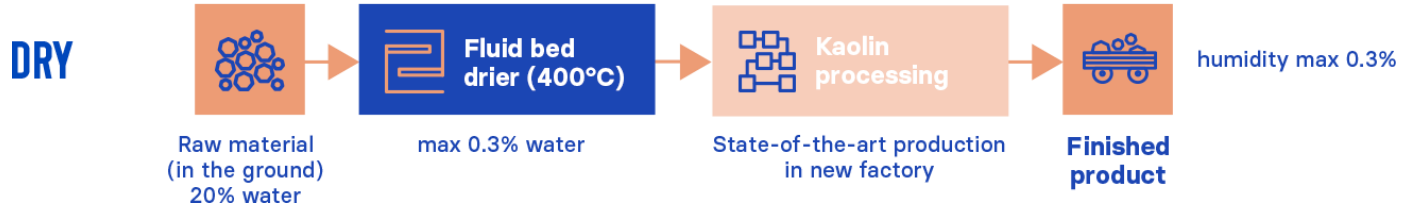
State of the art production in a new factory

For use in rubber it enables:

- Easy mixing with other substances or raw materials
- Regulation of pH
- Very dry material

As all the material is dried at once, it enables only reaches from 0% to about 0,3% moisture

VULCOLIN W50

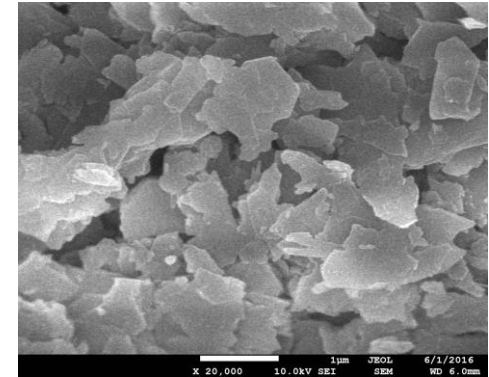


Improves & Reduces

- Process stability
- Costs
- Reduction of carbon black
- Low environmental footprint

Advantages:

- Improve of bladder shaping
- Reduces inner liner compound-transmission into carcass
- Reduces gas permeability
- Improve the chemical resistance



VULCOLIN W50 – TIRE APPLICATION INNERLINER

FLEXILIS
innovative solutions

EU Origin:

Regional, Sustainable
Economical solution

Recommendation:

Truck, Bus, OTR Tires, Pickup Tires
Passenger High Performance Tires, SUV,



High durability and stability silicates mixture in compounds for tire tubes and inner liner

Silicate (clay) requirements:

Muscovite Mica content

Approx. 70% of Kaolinite/Mica in Combination with Feldspar

Fine milling; X50 close to 5 μ m, for Mica

Formulation:

30 - 50 phr, partly replace of carbon black, viscosity has to be adapted

Suitable mixing process (dispersion)

Reduction of other mineral filler

Reduction or replacement of calcined clay in cable compound

Processing & Technical benefits:

Extrusion and Calendaring

Innerliner thickness reduction, controlled layer (surface) in tire

High pressure forming with higher stability in 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