

# Application of Neuburg Siliceous Earth as abrasive in polishes and cleaning agents



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## **Definitions**



#### Abrasive:

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Any of a number of hard materials, that are powdered and carefully graded according to particle size used to wear away, smooth or polish a surface. The grinding motion may be performed manually or by a machine.

### Polishes:

Preparations which are made to give gloss to surfaces mostly by abrasive action.

## **Cleaning Agents:**

Preparations which are made to clean surfaces without any abrasive action to the surface.



# **Classification of abrasives**



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Shape

Particle size

Chemistry



# History



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# **Grinding effect**

## of an abrasive







# Grinding effect of an abrasive







# Unique particles in Neuburg Siliceous Earth





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## **Kaolinite covers surface**



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Kaolinite





# Kaolinite grinds aggregates



Aggregates (silica from Neuburg Siliceous Earth or aluminum oxide) are destroyed between kaolinite particles and surface.



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# **Application fields**



Polishes for:

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- Metal (silver, gold, brass, copper, chrome, stainless steel, ...)
- Car (paint and varnish)
- Plastic (PMMA, PC, PVC, ...)







# **Application fields**



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Cleaning Agents for:

• Glass (silicon remover)

• Ceran (stove cleaner)

• Tiles (bathroom cleaner)

• Enamel (household cleaner)

Eloxal









# **Benefits**

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- Easy to incorporate in water and O/W-emulsions
- Low sedimentation rate
- Low "Over Grain" in puriss qualities
- Broad range of grain size available
  - Synergistic effects with aluminum oxide



# Summary



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SILLITIN has been successfully used as efficient abrasive agents in high performance polish formulations since the beginning of the 20th century because of its unique combination of corpuscular Neuburg silica and lamellar kaolinite.



## Conclusion



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Optimum efficiency and quality of polishes and cleaning agents is obtained with a suitable balance between **Neuburg Siliceous Earth** products, conditioning, surface active and dirt removing ingredients.

Polishes based on such combinations have for many years proved their value in industrial and household applications, in car maintenance and in the processing of noble metals.





# We supply material for good ideas!

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