



Levigated Alumina

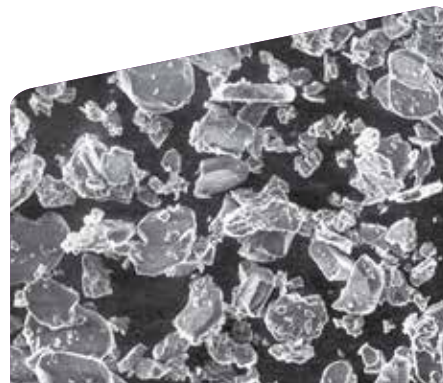
Saint-Gobain 7930 Levigated Alumina is 98% pure high-quality calcined alumina that is classified to achieve a tightly sized distribution. The single-crystal alumina platelets have an average size of approximately five microns. This is a cost-effective product for lapping, polishing, as a filler, and other applications. Levigated Alumina's main benefit is its rare combination of thermal conductivity and electrical resistivity.

PHYSICAL CHARACTERISTICS

Crystal Form	Monocrystalline Alpha Alumina
Shape	Hexagonal Platelets
Hardness	Knoop — 2000
pH	9.0-10.5
Specific Gravity	3.95 gm/cc

CHEMICAL CHARACTERISTICS

Al ₂ O ₃	98.70% min.
SiO ₂	0.06% max.
Fe ₂ O ₃	0.03% max.
Na ₂ O	1.00% max.
TiO ₂	0.02% max.
CaO	0.07% max.
MgO	0.05% max.



APPLICATIONS

- Thermally Conductive, Electrically Resistant Filler
- Lapping
- Tumbling
- Polishing
- Brake Shoe Additive
- Ceramic Insulators
- Epoxy Filler
- Compounds
- Heat Sink
- Mold Release
- Parting Media

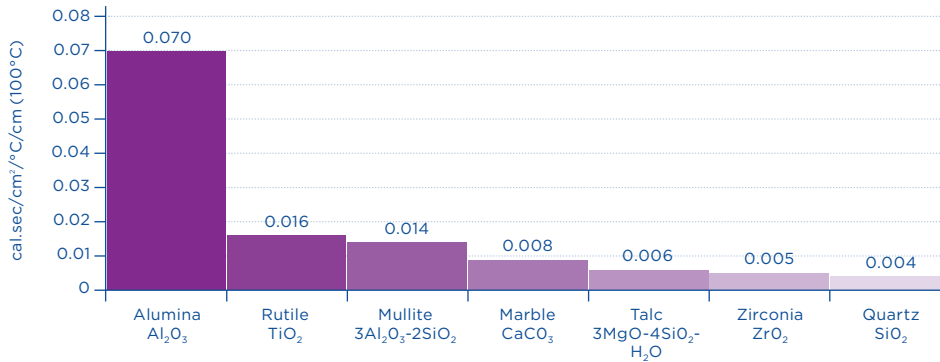
Levigated Alumina is recommended as a direct substitute for other electrically resistant white fillers where high hardness and/or high thermal conductivity is desired. A very important feature of all aluminas is their inherent combination of desirable electrical and thermal properties. Levigated Alumina adds additional value by its tight sizing and strict coarse particle control. This assures a consistent product with no coarse particles to excessively wear your processing equipment. The charts on the back show comparisons between alumina and other electrically resistant white fillers.



ENGINEERED PARTICLES / CALCINED ALUMINA

Levigated Alumina

THERMAL CONDUCTIVITY OF SELECTED ELECTRICALLY RESISTANT WHITE FILLERS

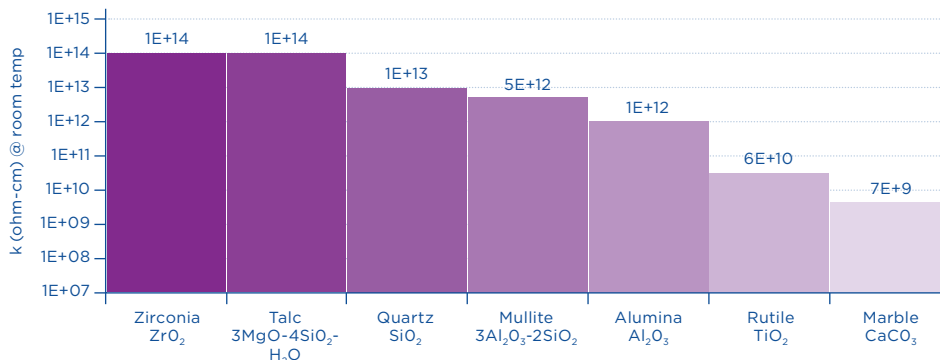


LEVIGATED PRODUCT SIZING

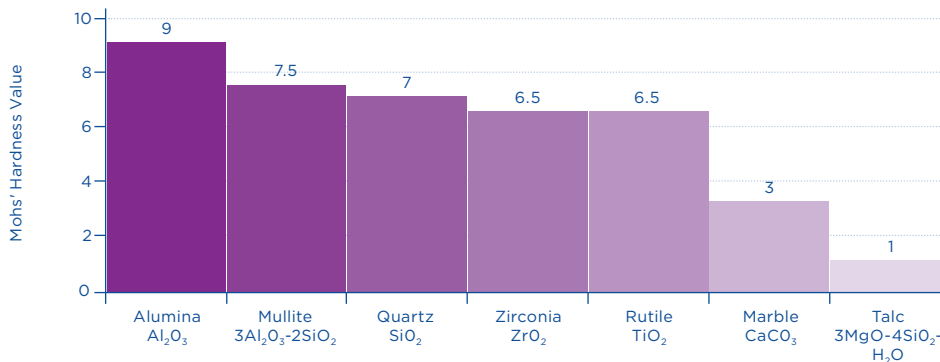
d ³ max.	d ⁵⁰	d ⁹⁴ min.
10.0	3.2 - 4.8	1.5

By Coulter Multisizer

ELECTRICAL RESISTIVITY OF SELECTED WHITE FILLERS



HARDNESS OF SELECTED ELECTRICALLY RESISTANT WHITE FILLERS



Sources:

[Handbook of Chemistry and Physics, 63rd Edition](#), Weast, et al. CRC Press, Boca Raton, Florida. 1982.

[Industrial Ceramics](#), Singer and Singer. Chemical Publishing Co., Inc., New York. 1963.

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14001: 2015

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SURFACE CONDITIONING

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