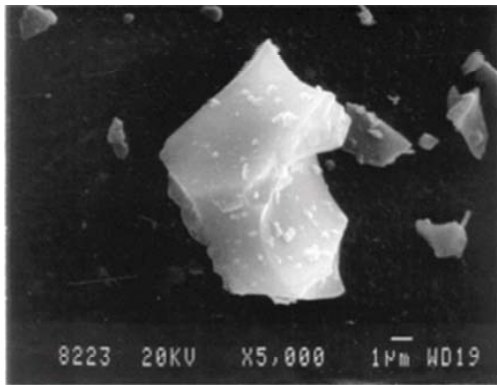


# SafSil Amorphous Silica

## SafSil®

**A HIGH-PERFORMANCE FUNCTIONAL FILLER CONTAINING LESS THAN 0.1% CRYSTALLINE SILICA**

**SafSil® is a naturally occurring volcanic glass, classified as a vitreous silica/silicate; it contains less than 0.1% crystalline silica. The material may be classified as vitreous silica by composition.**



Scanning Electron Micrograph of a SafSil® particle

TYPICAL CHEMICAL ANALYSIS, % By Wt.	
SiO <sub>2</sub>	73
Al <sub>2</sub> O <sub>3</sub>	12
K <sub>2</sub> O	4
Na <sub>2</sub> O	4
Fe <sub>2</sub> O <sub>3</sub>	<2
CaO	<2
MgO	<2
TiO <sub>2</sub>	<2

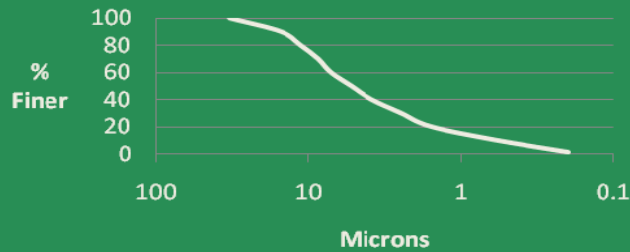
TYPICAL PHYSICAL PROPERTIES			
Grade	CT200	CT450	CT550
Hegman	2.0 – 3.0	4.5 – 5.5	5.0 – 6.0
Oil Absorption (ASTM D281)	39	40	40
GE Brightness	77	78	79
Median Particle Size	12µ	7µ	5µ
pH (10% in water)	8.0 – 10.0	8.0 – 10.0	8.0 – 10.0
Hardness, Mohs	5.5 – 6.0	5.5 – 6.0	5.5 – 6.0
Index of Refraction	1.5	1.5	1.5
Specific Gravity	2.4	2.4	2.4
Bulking Value, gal/lb	0.05	0.05	0.05
Moisture	<1%	<1%	<1%

\*The above values are relative. They should not be considered specifications.

# SafSil Amorphous Silica

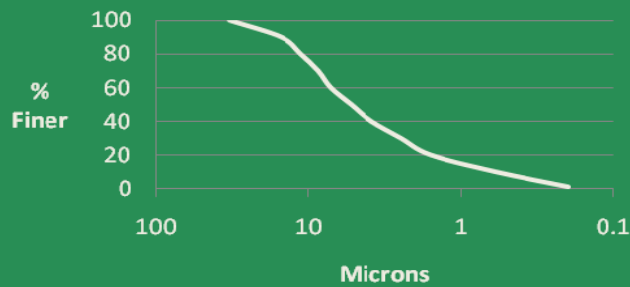
## Particle Size Distribution\*

SafSil® CT200



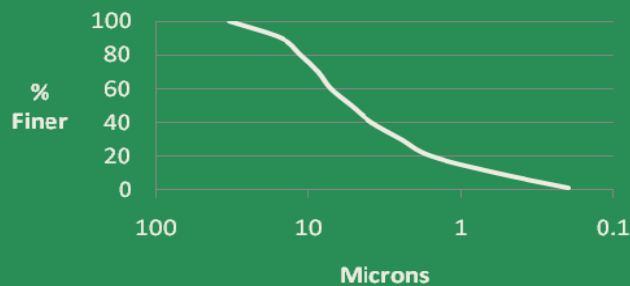
## Particle Size Distribution\*

SafSil® CT450



## Particle Size Distribution\*

SafSil® CT550



\*Actual Particle Distribution Will Vary Within Test Parameter

## SafSil Amorphous Silica

In addition to being environmentally friendly, SafSil® offers benefits to a great number of applications. The following applications are end uses where the intrinsic properties of SafSil® volcanic glass have found beneficial. Newer applications are continuously occurring.

- **PAINTS & COATINGS**
- **ABRASIVES**
- **GENERAL POLISHING**
- **RUBBER COMPOUNDS**
- **CLEANSERS**
- **PLASTICS & FIBREGLASS COMPOUNDS**
- **ADHESIVE & SEALANT COMPOUNDS**
- **GROUTS & JOINT COMPOUNDS**
- **FLOOR COMPOSITE SYSTEMS**
- **MOLD RELEASE COMPOUNDS**
- **AUTO BODY FILLERS**

Contact Fred Marschall for technical information (727-230-2183) or email [fred@crminerals.com](mailto:fred@crminerals.com).