# Data documentation for size and shape characteristics of Indian tremolite

## Title
Size and shape characteristics of Indian tremolite

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## Data Files
The csv version contains the same data as the corresponding xlsx file, but its structure has been modified to make well-formed csv. The csv file is provided as a software-independent alternative to the xlsx format.
Abstracts
This material was characterized by the University of Maryland in collaboration with the US Bureau of Mines (USBM) as part of studies on the nature of asbestos. The sample was provided to the University of Maryland by the US Bureau of Mines. It is from Rajasthan State, India.

Indian tremolite is a sample composed primarily of the amphibole mineral tremolite. It has fibrous habit and brittle behavior. Most of the long particles are broken. In this location, tremolite occurs as both very fine asbestos fibrils, and coarser, brittle fibers known as byssolite, and fibers in between. The sample has been referred to as tremolite: byssolite and asbestos, and as tremolite-asbestos (?) to express the range of habits.

Sample preparation included dispersal in water and deposition on 0.1μm Nucleopore filters. A portion of the filters was copper coated and examined by SEM equipped with EDXA. Measurements of width were made at 20,000X and lengths at 10,000 to 15,000. 1.099 latex spheres co-mounted on the SEM stubs were used to calibrate measurements. Particles to be measured were chosen by moving the specimen tab in increments and recording the length and width of the particle whose center fell closest to the center of the field of view. Precision is estimated as ± 0.06 μm.

Variables/Parameters
| length | particle length in micrometers - μm |
| width | particle width in micrometers - μm |
### Keywords/Topics
- Tremolite
- Byssolite
- Asbestos
- Amphibole group
- Granulometry

### Associated Publications
Analysis of these data or analysis of the same samples can be found in the following publications:


### Data Citation
Wylie, A.G., and Virta, R.L., 2016, *Size and shape characteristics of Indian tremolite*: Digital Repository at the University of Maryland, [http://dx.doi.org/10.13016/M21H7S](http://dx.doi.org/10.13016/M21H7S)

### DOI
10.13016/M21H7S

### Data Repository
Digital Repository at the University of Maryland (DRUM)

[http://drum.lib.umd.edu](http://drum.lib.umd.edu)
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