

## Gobbinsite - $\text{Na}_5(\text{Si}_{11}\text{Al}_5)\text{O}_{32} \cdot 11\text{H}_2\text{O}$

Hardness: 4. Cleavage: None observed. Brittle. Attacked by HCl; use warm acetic acid to remove calcite. Derust with oxalic acid. Remove manganese hydroxides/oxides with ascorbic acid.

### References

Mindat: <https://www.mindat.org/min-1715.html>

Handbook of Mineralogy: <https://www.handbookofmineralogy.org/pdfs/gobbinsite.pdf>

Betts, J. (2023) Mineral cleaning for amateurs.

[www.johnbetts-fineminerals.com/jhbnyc/articles/minclean.htm](http://www.johnbetts-fineminerals.com/jhbnyc/articles/minclean.htm)

Tschernich, R. (1992) Zeolites of the World, 597 p. Geoscience Press, Inc., Phoenix, Arizona.

<https://www.mindat.org/reference.php?id=1118707>