

Dualite -

$\text{Na}_{30}(\text{Ca}, \text{Na}, \text{Ce}, \text{Sr})_{12}(\text{Na}, \text{Mn}, \text{Fe}, \text{Ti})_6\text{Zr}_3\text{Ti}_3\text{Mn}[\text{Si}_{51}\text{O}_{144}](\text{OH}, \text{H}_2\text{O}, \text{Cl})_9$

Hardness: 5. Cleavage: None observed. Attacked by HCl. May be sensitive to oxalic acid.

References

Mindat: <https://www.mindat.org/min-27578.html>

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

Duthaler, R. and Weiß, S. (2024) Mineral Cleaning for Collectors, 3rd Edition, 190 p. Duthaler, Switzerland.