

Kazakhstanite - $\text{Fe}^{3+}_5\text{V}^{4+}_3\text{V}^{5+}_{12}\text{O}_{39}(\text{OH})_9 \cdot 9\text{H}_2\text{O}$

Hardness: 2.5. Cleavage: Perfect. Attacked by HCl or H₂SO₄.

References

Mindat: <https://www.mindat.org/min-2171.html>

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

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