

Nb ₃ AsTe ₃	<i>hP</i> 14	(176) <i>P</i> 6 ₃ / <i>m</i> – h ² d
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Nb₃AsTe₃ [1]

Structural features: Units of three face-linked Nb(As₂Te₄) octahedra share edges to form a 3D-framework with channels of hexagonal cross-section parallel to [001]. Ordering variant of Nb₃Te₄, Nb₃[AsTe₃].

Bensch W., Heid W. (1995) [1]

AsNb₃Te₃

a = 1.04058, *c* = 0.35684 nm, *c/a* = 0.343, *V* = 0.3346 nm³, *Z* = 2

site	Wyck.	sym.	<i>x</i>	<i>y</i>	<i>z</i>	occ.	atomic environment
Nb1	6 <i>h</i>	<i>m</i> ..	0.1262	0.5035	¹ / ₄		octahedron As ₂ Te ₄
Te2	6 <i>h</i>	<i>m</i> ..	0.2765	0.3291	¹ / ₄		4-vertex polyhedron Nb ₄
As3	2 <i>d</i>	-6..	² / ₃	¹ / ₃	¹ / ₄		trigonal prism Nb ₆

Experimental: single crystal, diffractometer, X-rays, R = 0.011

References: [1] Bensch W., Heid W. (1995), J. Alloys Compd. 224, 220-224.