$MgNi_3B_2$	*hP*18	(180) $P6_222$ – ifda

$MgNi_{2.5}B_2$ [2]; $Li_{1.2}Ni_{2.5}B_2$ [2]
Structural features: Kagomé-mesh Ni_3 layers and MgB_2 layers alternate along [001]. BNi_6 trigonal prisms share edges to form infinite slabs. Deformation derivative of $CeCo_3B_2$ with formation of B_2 pairs perpendicular to [001].

Gross K.J. et al. (1998) [1]
B_2MgNi_3
a = 0.48799, c = 0.87859 nm, c/a = 1.800, V = 0.1812 nm^3, Z = 3

site	Wyck.	sym.	x	y	z	occ.	atomic environment
B1	6*i*	..2	0.6146	0.2292	0		7-vertex polyhedron BNi_6
Ni2	6*f*	2..	$^1/_2$	0	0.208		tetrahedron B_4
Ni3	3*d*	222	$^1/_2$	0	$^1/_2$		14-vertex Frank-Kasper $B_4Ni_6Mg_4$
Mg4	3*a*	222	0	0	0		pseudo Frank-Kasper $B_6Ni_{12}Mg_2$

Experimental: powder, diffractometer, X-rays, R_B = 0.042

Remarks: Refinement of the site occupancies showed no significant deviation from unity.

References: [1] Gross K.J., Züttel A., Schlapbach L. (1998), J. Alloys Compd. 274, 234-238. [2] Jung W. (1977), Z. Naturforsch. B 32, 1371-1374.