

Mg

hP2

(194) *P6₃/mmc - c*

Mg [2], h.c.p. (hexagonal close-packed), Strukturbericht notation A3; Zn [3]
Structural features: Close-packed layers in *h* stacking, i.e. consecutive layers are shifted in opposite directions. See Fig. III.1.

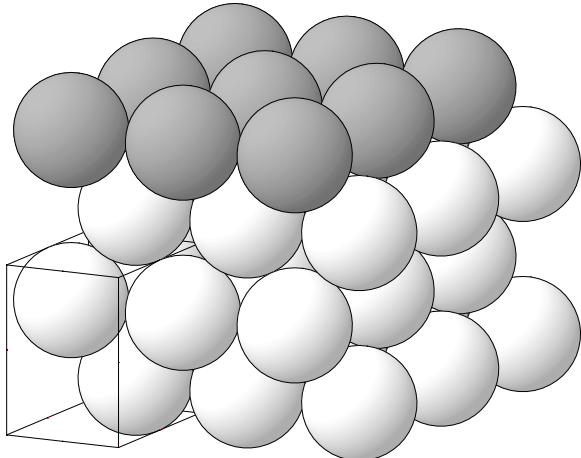


Fig. III.1. **Mg**

Arrangement of Mg atoms emphasizing a close-packed layer perpendicular to [001].

Predel B., Hülse K. (1978) [1]

Mg

$a = 0.32092$, $c = 0.52121$ nm, $c/a = 1.624$, $V = 0.0465$ nm³, $Z = 2$

site	Wyck.	sym.	x	y	z	occ.	atomic environment
Mg1	2c	-6m2	1/3	2/3	1/4		anticuboctahedron Mg ₁₂

Experimental: powder, film, X-rays

Remarks: Zn with $c/a = 1.86$ and lower coordination number (6+6) is sometimes considered as a branch.

References: [1] Predel B., Hülse K. (1978), Z. Metallkd. 69, 690-696. [2] (1931), Strukturberichte 1, 16,40. [3] (1931), Strukturberichte 1, 16,41.