

Internal Alloy Specifications

This document for internal use only.

Single units indicate the maximum amount permitted.

Consult the Customer Specification Book for individual customer requirements.

Product	Al	Fe	Mg	Cu	Cd	Pb	Sn	Ni	Si	Zn
Special High Grade* (ASTM B6-00)	0.002	0.003	*	0.002	0.003	0.003	0.001	*	*	99.990 min.
#2 Zinc Alloy (ASTM B240-01ε1 AC43A)	3.9 - 4.3	0.075	0.025 - 0.050	2.6 - 2.9	0.003	0.004	0.002			remainder‡
#3 Zinc Alloy (ASTM B240-01ε1 AG40A)	3.9 - 4.3	0.075	0.025 - 0.050	0.1	0.003	0.004	0.002			remainder‡
#5 Zinc Alloy (ASTM B240-01ε1 AC41A)	3.9 - 4.3	0.075	0.030 - 0.060	0.75 - 1.25	0.003	0.004	0.002			remainder‡
#7 Zinc Alloy (ASTM B240-01ε1 AG40B)	3.9 - 4.3	0.075	**0.010 - 0.020	0.1	0.002	0.002	0.001	0.005 - 0.02		remainder‡
8% Hardener	7.8 - 8.6	0.07	0.050 - 0.100	0.2	0.004	0.004	0.004			remainder‡
V12 Hardener	11.7 - 12.6	0.07	0.075 - 0.12	0.25	0.004	0.005	0.003			remainder‡
ZA8 Zinc Alloy (ASTM B240-01ε1)	8.2 - 8.8	0.065	0.020 - 0.030	0.80 - 1.3	0.005	0.005	0.002			remainder‡
ZA12 Zinc Alloy (ASTM B240-01ε1)	10.8 - 11.5	0.065	0.020 - 0.030	0.50 - 1.2	0.005	0.005	0.002			remainder‡
ZA27 Zinc Alloy (ASTM B240-01ε1)	25.5 - 28.0	0.072	0.012 - 0.020	2.0 - 2.5	0.005	0.005	0.002			remainder‡
ACuZinc 5 (ASTM B892-98ε2)	2.8 - 3.3	0.05	0.035 - 0.050	5.2 - 6.0	0.003	0.004	0.002			remainder‡
Plastalloy™	3.9 - 4.3	0.07	0.006 max	2.75 - 3.25	0.003	0.005	0.002			remainder‡
Die metal Grade 1	3.9 - 4.3	0.07	0.025 - 0.060	2.50 - 3.25	0.003	0.005	0.003			remainder‡
Die metal Grade 2/ Kirksite	3.5-4.25		0.025 - 0.060	2.50 - 3.25		0.050				remainder‡
96/4 Brightener	3.5-4.5	0.03		0.03						remainder‡
95/5 Brightener (ASTM B860-02 Type A-3)	4.5-5.5	0.03		0.03						remainder‡
90/10 Brightener (ASTM B860-02 Type A-1)	9.5 - 10.5	0.03		0.03						remainder‡
Galvalume	55.0 - 58.0	0.02		0.03		0.01			1.5 - 2.0	40.0 - 43.5

* Total non-zinc maximum: 0.010%

** Target for Mg on #7 sows: 0.014%

‡ Determined arithmetically by difference