

Lead-Calcium-Aluminum-Tin Alloys Technical Datasheet

Uses

Pre-alloyed (based upon Nyrstar BHAS soft lead) Lead-Calcium-Aluminium-Tin alloys suitable for Lead Acid batteries manufacturing, and is used by battery companies world-wide.

Chemical specification

Chemical specification*	Guaranteed analysis
Ca	0 ~1.5%
Sn	0 ~ 4,5%
Al	0 ~0.040%
Ag	≤ 0.0050%
As	≤ 0.0010%
Bi	≤ 0.0300%*
Cd	≤ 0.0010%
Cu	≤ 0.0020%
Fe	≤ 0.0010%
Ni	≤ 0.0010%
Sb	≤ 0.0010%
Zn	≤ 0.0005%

* Extra impurity elements or control tolerance might be added based on commercial agreement

Physical data

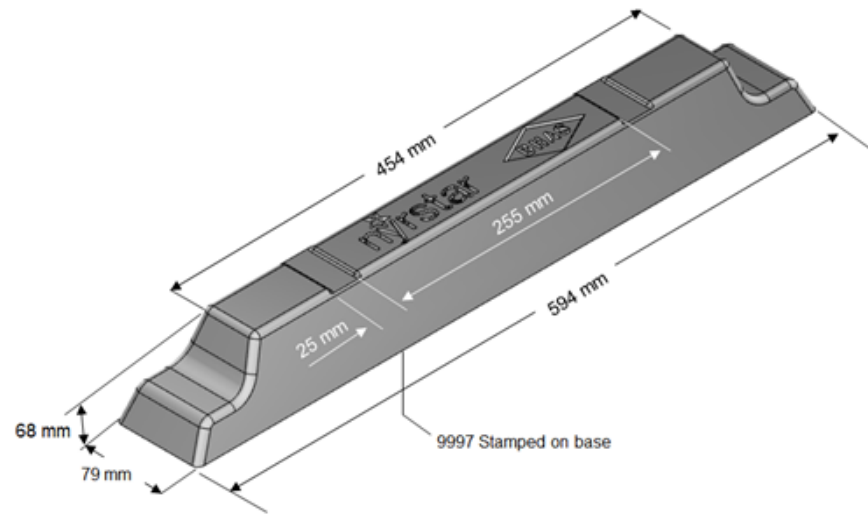
Physical property	Unit	Value
Density	solid (@ 20°C) liquid (@ 327.3°C)	11.337 10.686
Melting point	°C	~ 327.3

Available shapes/package

Shape/package	Nominal weight (in kg)	Dimensions (in mm)
Ingot	25	592 x 80 x 69
Ingot bundle (42 ingots per bundle)	1050	592 x 592 x 476

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Ingot**Nominal mass 25 kg**
Dimensions 592 x 80 x 69**Ingot bundle (42 ingots per bundle)****Nominal mass 1050 kg**
Dimensions 592 x 592 x 476