



# **HANUSHI MANUFACTURING LIMITED**

Commodities with Excellence

[www.hanushi.com](http://www.hanushi.com)

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# WHO WE ARE

Hanushi Manufacturing Limited is a leading Lead Smelter in Nigeria. At Hanushi Manufacturing Limited we produce the highest quality lead and lead alloys supplied to our customers who are mainly battery manufacturers, Secondary Lead Smelters & chemical manufacturers. 100% of our production is exported to our numerous international customers mainly but not limited to the region like South Korea, Japan, Indonesia, Italy, Spain, India and to Middle – East. Over the years Hanushi Manufacturing Limited has built a unmatched brand image within the lead sector for its quality, high level of efficiency and Reliability.

Lead is a soft, malleable, ductile, dense metallic element, extracted chiefly from the mineral galena and found in ore that also contains zinc, silver and copper. Today, the chemical properties of lead allow this element to be used mainly in power storage and delivery applications.

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## CORE VALUES

Our Organization functions with these core principles



**Fairness & Trust**



**Passion & Commitment**

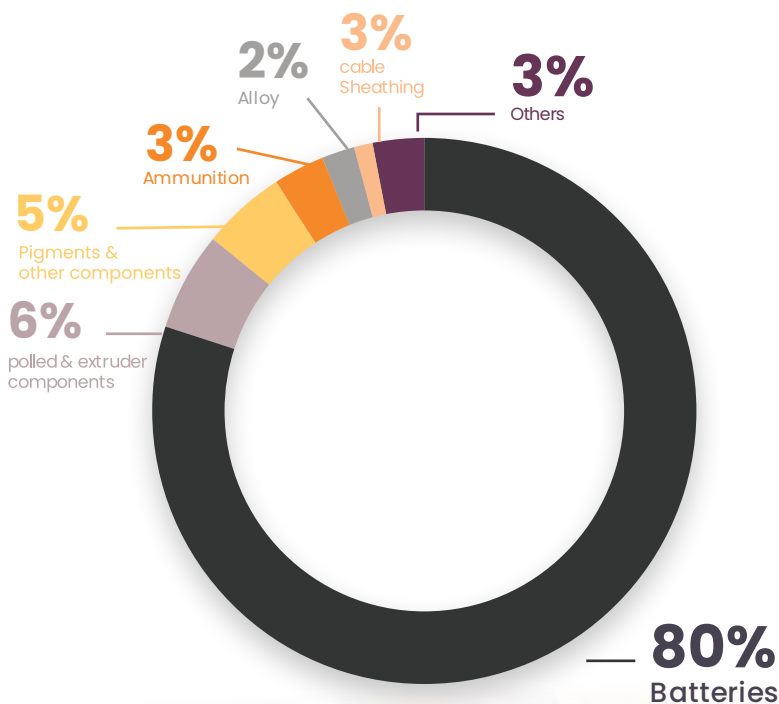


**Nurturing Association**

# USES

The primary use of lead is in lead-acid batteries for motor vehicles (80% of total use). It is also used in a variety of other applications, such as stationary batteries (for backup power), pigments and ammunition.

## LEAD, GLOBAL USES, 2018



### VISION

To be the most valuable company in the recycling space in Africa.



### MISSION

To be amongst the top 5 African companies in recycling by 2025.

# OUR PRODUCTS



## PURE LEAD

### Our Pure Lead Standards

Sn%	Sb%	Bi%	Cu%	Cd%	Ag%	As%	Ni%
0.0005	0.0005	0.0130	0.0010	0.0001	0.0030	0.0002	0.0010
Se%	Zn%	Te%	Al%	Ca%	Fe%	S%	Pb%
0.0010	0.0005	0.0005	0.0003	0.0002	0.0005	0.0005	99.98



## REMELTED LEAD INGOTS

Remelted Lead Ingots are being produced from Raw Lead/ Battery Scraps / Lead Scraps and other scraps of Lead in the specially designed rotary furnace . The Scrap is obtained & is mixed with other reducing agents in the Furnace. We dispatch after staking of 55 ingots in one bundle dully striped. Remelted Lead Ingots, which contains about 97-99% Lead Metal with remaining Impurity Elements (Total 2-3%) as Antimony, Tin, Arsenic, Iron, Bismuth, Copper etc.



## LEAD ALLOY - CALCIUM ALLOYS

### Calcium Lead Alloy

Elements	(%) Limit
Calcium (Ca)	0.120 +/- 0.020
Aluminum (Al)	0.030 +/- 0.010
Tin (Sn)	0.400 +/- 0.100

### Other Impurities

Applications : For making Automotive/Tubuler/SMF/VRLA battery plates.

# LEAD ALLOY - CALCIUM ALLOYS

## Antimony Selenium Lead Alloy – 2.5

Elements	(%) Limit
Antimony (Sb)	2.500 +/- 0.250
Arsenic (As)	0.150 +/- 0.050
Tin (Sn)	0.250 +/- 0.050
Selenium (Se)	0.020 +/- 0.005

Applications : For making Automotive / Tubuler grids.

## Tin Lead Alloy

Elements	(%) Limit
Antimony (Sb)	0.005
Arsenic (As)	0.001
Bismath (Bi)	0.030
Iron (Fe)	0.001
Copper (Cu)	0.005
Tin (Sn)	20 – 80 (As per requirement)
Other Impurities	Within Specified Limits.

## Antimony Lead Alloy – 4.5

Elements	(%) Limit
Antimony (Sb)	4.500 +/- 0.250
Arsenic (As)	0.150 +/- 0.025
Tin (Sn)	0.250 +/- 0.050
Sulphur (S)	0.003 – 0.008
Copper (Cu)	0.040 – 0.060
Other Impurities	Within Specified Limits

Applications : For making automotive / Tubuler Gridsn

## Copper Lead Alloy

Elements	(%) Limit
Copper (Cu)	0.070 – 0.080
Antimony (Sb)	0.001
Arsenic (As)	0.001
Tin (Sn)	0.001
Bismath (Bi)	0.030
Iron (Fe)	0.001
Zinc (Zn)	0.001
Silver (Ag)	0.005
Other Impurities	Within Specified Limits

Applications : For making automotive / Tubuler Gridsn

## Antimony Lead Alloy – 3.0

Elements	(%) Limit
Antimony (Sb)	3.000 +/- 0.250
Arsenic (As)	0.125 +/- 0.025
Tin (Sn)	0.250 +/- 0.050
Sulphur (S)	0.003 – 0.008
Copper (Cu)	0.040 – 0.060

Applications : For making small parts in HD batteries, also in COS Fusion

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