



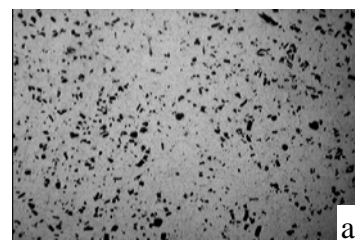
Aluminum - Phosphorus Master Alloys

High Tech. Product for Silicon Refinement

New aluminum based master alloys, Aluminum – Phosphorus Master Alloys, in tablets or wire form to provide better refinement of the primary silicon structure in eutectic and hypereutectic aluminum – silicon alloys are produced successfully by Shandong Shanda Al & Mg Melt Tech. Co., Ltd.

The microstructure characteristic of Aluminum – Phosphorus Master Alloys is that a large number of pre-generated aluminum phosphide (AlP) particles distributed in alloys (Fig. a).

Al-P master alloys are produced in 500g tablets (Fig. b) or in $\Phi 9.5\text{mm}$ wire (Fig. c).



Al-P master alloys benefits

- Provide excellent refinement in little or low copper alloys without the usual contamination caused by the use of Cu-P alloy.
- Dissolution at 720°C or below within 2 minutes.
- Can be added directly to the casting furnace or continuous casting rather than in the melting furnace to minimize losses.
- Good phosphorus recoveries.
- Inert phosphorus content.
- Easy to handle and measure.
- Can be used as a trim addition as P is lost when pre-refined ingot is melted.

Now we produce series of Al-P master alloys for aluminum factories.

Series of Al-P Master Alloys

Binary Al-P Master Alloys				Shape
AIP3	P 2.7-3.3%	Others $\leq 0.5\%$		Wire
AIP5	P 4.6-5.4%	Others $\leq 0.8\%$		Ingot
Ternary Al-P Master Alloys				
AlSiP5	P 4.6-5.4%	Si [Ⓢ] 8.0-20.0%	Others $\leq 0.8\%$	Ingot
AlCuP5	P 4.6-5.4%	Cu [Ⓢ] 2.0-11.0%	Others $\leq 0.8\%$	Ingot
AlFeP5	P 4.6-5.4%	Fe [Ⓢ] 2.0-11.0%	Others $\leq 0.5\%$	Ingot

Note: [Ⓢ]Composition could be changed according customer's requirements.

For further information or technical assistance, please call us or visit our website.

*Chase Excellence,
Never Stop*

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