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 Φ9.5mm 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**
  - AlP3  P 2.7-3.3%  Others≤0.5%  Wire
  - AlP5  P 4.6-5.4%  Others≤0.8%  Ingot

- **Ternary Al-P Master Alloys**
  - AlSiP5  P 4.6-5.4%  Si 8.0-20.0%  Others≤0.8%  Ingot
  - AlCuP5  P 4.6-5.4%  Cu 2.0-11.0%  Others≤0.8%  Ingot
  - AlFeP5  P 4.6-5.4%  Fe 2.0-11.0%  Others≤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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