



JHIHGUAN METAL & MATERIAL CO., LTD.
JHIHGUAN INTERNATIONAL TRADING CO. LTD.

志冠金屬材料有限公司

1F, #71, CHUANGXIN RD., NANZI DIST., KAOHSIUNG CITY 811,
TAIWAN, R.O.C.

[E-mail: jhihguan.metal@yahoo.com](mailto:jhihguan.metal@yahoo.com)

Date: 2012-03-02

PRODUCT DATA SHEET

| | |
|-----------------------|--|
| Master alloy: | Grain Refiner for Aluminium foundry |
| Specification: | AlZr5 AlZr10 |
| Factory: | WuYi Sunrise Metal Materials Co., Ltd., in Zhejiang, China |

Description: Aluminium Zirconium (AlZr)

Item: AlZr5 AlZr10

Zirconium is a minor additive to certain aluminum-magnesium-zinc alloys such as 7005. The usage of Zirconium is about 0.1 to 0.3%, to increase the recrystallization temperature and to control the grain structure in wrought products. Zirconium additives have been used to reduce the grain size. In addition, zirconium tends to reduce the grain-refining effect of titanium boron additives, therefore it is necessary to use more titanium boron to grain refine zirconium-containing alloys.

Aluminium-zirconium (AlZr)

| Chemical Composition | Zr | Si | Fe | Ti | Other minor elements |
|-----------------------|----------|------|-------|-------|----------------------|
| Percentage % (AlZr5) | 4.5-5.5 | <0.2 | <0.25 | <0.05 | 0.1 |
| Percentage % (AlZr10) | 9.0-11.0 | <0.2 | <0.25 | <0.05 | 0.15 |

Application: Alloying zirconium into 7000 series aluminium wrought or some foundry alloy.

Packaging : AlZr5 I/10 ingot: 3Kg/block · 1000Kg/pallet

Storage : Place in a dry and well ventilated area.

Validity 5 years