

## Introduction

AlSi5 is a kind of aluminum & silicon alloy welding wires with 5% silicon. It is under good liquidity, good forge ability, but lack of ductility. When it is used in the welding of high magnesium alloy, it will easily generated in the weld brittle  $Mg_2Si$ , reduce the plasticity and the corrosion resistance of joint due to the high silicon content. In addition, the color of welding surface is dark, after anodized it will be more different with parent metal color.

**Equivalent:** S331

## Chemical & Physical Properties

| Si | Al   |
|----|------|
| 5  | Bal. |

## Applications

- Ships. Engine. Chemistry
- Food. Sports equipment
- Mould. Furniture
- Vessel. Container

## Deposit Characteristics

|                             |     |
|-----------------------------|-----|
| <b>Rp0,2(Mpa)</b>           | 40  |
| <b>Rm(MPa)</b>              | 120 |
| <b>A5(L0=5d0)(%)</b>        | 8   |
| <b>Test temperature(°C)</b> | 20  |

## Standard Dimensions

| Wire | Diameter (mm)  | Tolerance (mm) |
|------|----------------|----------------|
|      | 1.6, 2.0, 3.17 | + 0 / - 0.05   |

Other sizes (diameter and wire weight) can be manufactured accordingly to the requirements of customers.

## Packaging

|              |                            |
|--------------|----------------------------|
| <b>Spool</b> | 15kgs / spool (D300 spool) |
| <b>Coil</b>  | 20 - 400kgs / coil         |