



## TECHNICAL DATA SHEET

# AlSr

## Aluminium 90% Strontium 10% in sticks form



### DESCRIPTION

Aluminium 90% Strontium 10% is a metallic alloy in sticks form to be used in aluminium of gravity, low pressure, high pressure and sand foundries, to introduce Strontium in the composition of eutectic alloy Al Si 7-13% to obtain a modifying effect.

The pre-weighted sticks are added in aluminium liquid alloy to modify the structure of primary silicon and induce the structure to change. Silicon morphology from lamellar to uniform and globular.

**Pre-weighted for easier dosage, modifier for eutectic alloys Al-Si 7-13%, Improvement of mechanical characteristics of alloy, no fumes during addition in liquid metal.**

### PRODUCT PHYSICAL DATA:

<b>Appearance:</b>	Stick	<b>Stick weight:</b>	100 gr
<b>Diameter:</b>	9,5 mm	<b>Length:</b>	500 mm

### METHOD OF USE

Add, in liquid metal alloy after having carefully pre-heated the sticks. It is possible to add before or when bath temperature is 700-760°C.

Always consider that incubation time is required after addition of the modifier.

This will allow to obtain a good modification status in the alloy.

20 minutes is the recommended time to wait in the holding furnaces before starting pouring procedures.

Thermal analysis TA 12.13 instrument is suitable for a consistent control of modification status on the liquid alloy.

### QUANTITY OF USE

Standard addition ratio is 0,015 - 0,02 % and according to the thickness of the casting walls and the casting technique.

Alloy	Grams for 100 kg alloy
Al Si 7 Mg 0,3	150 – 200 gr
Al Si 10 Mg (a)	150 – 250 gr
Al Si 9 Mg	150 – 200 gr

Alloy	Grams for 100 kg alloy
Al Si 11 (Mg)	150 – 250 gr
Castasil® - 37	50 – 100 gr
Silafont® - 36	50 – 100 gr

### CONTROL OF MODIFICATION STATUS

Thermal analysis TA 12.13 instrument is suitable for a consistent control of modification status in the liquid alloy.

TA 12.13 allows to record the temperature during the cooling of the alloy and to highlight the degree of modification and refinement achieved. These parameters make it possible to monitor the result of the treatment and to know and store the essential values for quality control of each ladle or furnace.

For further details on the TA 12. 13 instrument we can provide additional documentation.

### PACKAGING AND STORAGE

15 kg cardboard boxes.