aleastur
aluminium

tailoring products for sustainable metal industries

ALEASTUR has a consolidated international reputation and is considered one of the leading companies in the production of grain refiners and master alloys for the aluminum industry.

Grain Refiners

ALEASTUR produces the widest range of high quality aluminium grain refiners in the market, suitable for all of aluminium wrought and foundry alloys production and their multiple applications, from transportation and food and beverage to energy and construction

Master Alloys

Aluminium master alloys are the smartest option for the addition of alloying elements to aluminium alloys. Master alloys ease a quick dissolution of alloying elements in liquid aluminium with a high efficiency, cleanliness, consistency, accuracy, energy and time savings

PAF

ALEASTUR is internationally regarded as one of the most outstanding and technically advanced producer of Potassium Aluminium Fluoride (PAF).

Aleastur Middle East WLL · Building 2256, Road 5154, Block 951, Askar, Bahrain
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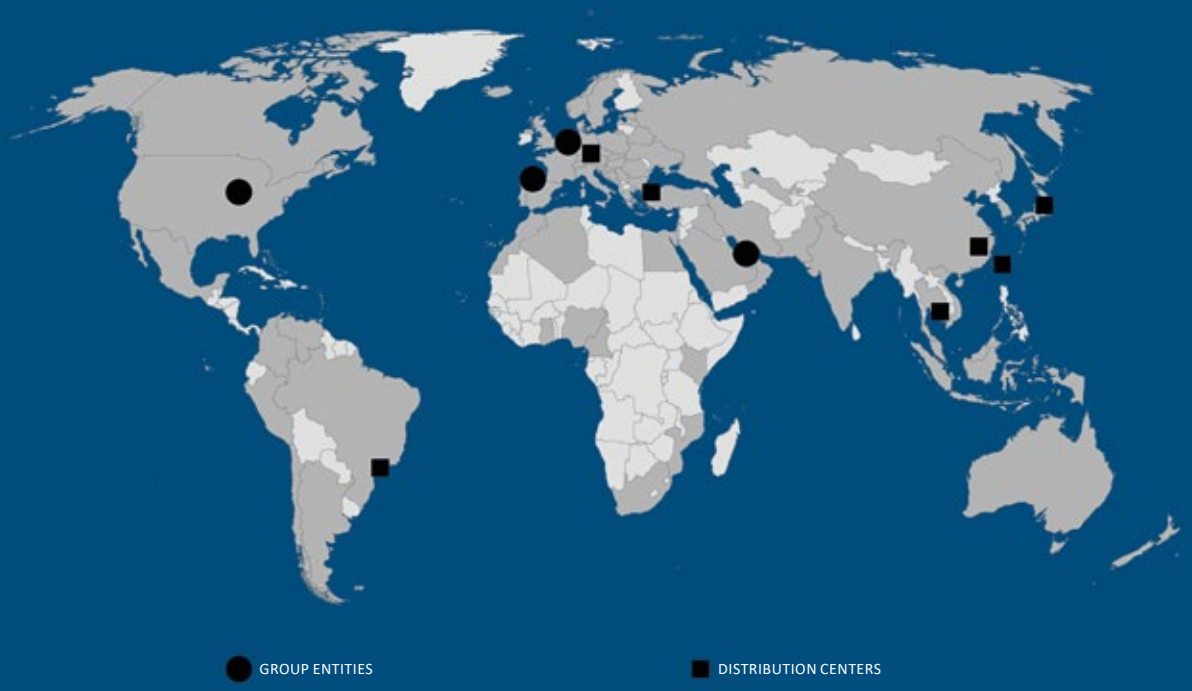

aleastur group

ALEASTUR supplies its products to more than 800 clients in 80 countries around the world, satisfying the most demanding requirements and technical standards.

We are part of a group of companies with a direct presence throughout production facilities, subsidiaries and distribution centers in Spain, the Netherlands, Germany, USA, Brazil, Turkey, Bahrain, Thailand, Taiwan, China and Japan.

Our group endorses, reinforces and complements our activities and facilities with all the available technical and commercial resources.

We have been developing our industrial activity for more than 45 years under a permanent search for improvement in competitiveness, efficiency and specialization.

A group in expansion and in the midst of a full process of transformation.

ALEASTUR is a consolidated and well-known Spanish industrial group with more than 50 years of proven track-record manufacturing specialty alloys and products for both the aluminium and the steel metal industries.

Since our very inception, we have been developing our industrial activities under a permanent search for improvement in our competitiveness, efficiency, specialization and customer orientation.

We are still pushing forward our capabilities following a deep process of transformation. We are evolving towards an increasingly agile and efficient organization which makes decisions based on data and actively collaborates with the ecosystem. We put our people and their safety, our social responsibility and the environment at the centre of our sustainable growth strategy.

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aleastur aluminium

Aluminium Grain Refiners

AlTiB and AlTiC

Control of grain refinement is an essential process in the aluminium casting Industry

ADVANTAGES

The use of AlTiB and AlTiC alloys as aluminium grain refiners provides the following advantages to an aluminium alloy:

- Faster casting speeds due to a higher fluidity
- Better homogeneity of the alloy and uniformity of the structure
- Reduction of the crack tendency during solidification
- Improvement of surface quality
- Enhancement of mechanical properties

ALLOY RANGE

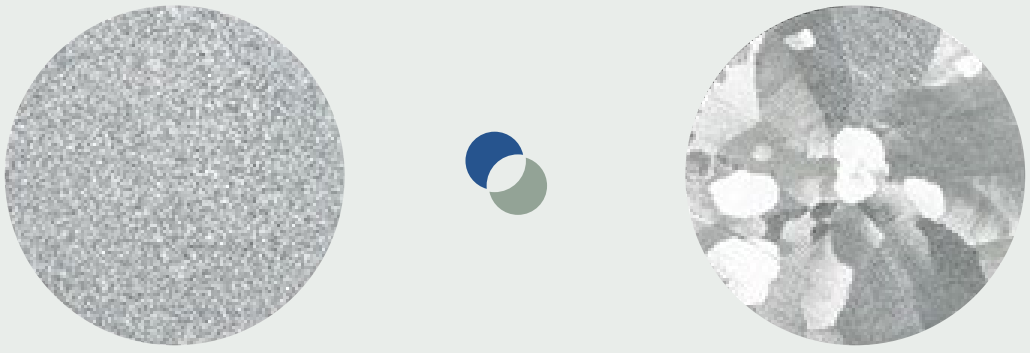
Produced from 99.7% purity aluminium Aleastur offers the widest range of AlTiB and AlTiC grain refiners for the market, following American (AA) and European (EN 575:1995) standards

ALLOY	EN 575	AA	Aleastur Colour Code
AlTi5B1	AM-92256	H2252	
AlTi5B0.2	AM-92252	H2207	
AlTi3B1	AM-92250	H2214	

Other Ti:B ratios available on request

ALLOY	EN 575	AA	Aleastur Colour Code
AlTi3C0.15		H2231	

Other Ti:C ratios available on request



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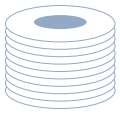
FORMS

Coil



Wire Diameter	Inner Diameter	Outer Diameter	Width	Weight
9.5 ± 0.5 mm	360 mm	720, 830, 1050 mm	300 mm	180, 270, 450 kg

Packaging: Coils on wooden pallet

Sticks

Wire Diameter	Lenght	Weight
9.5 ± 0.5 mm	500, 1000 mm	100, 200 g

Packaging: Cardboard boxes, 25 kg, 100 kg, 1300 kg
Others on Request

Contibar

Weight
200 to 3500 g

Packaging: Big bag / Drums / Shrink wrapped on wooden pallet

Waffle

Dimensions	Weight
500x200x50 mm	6.5 ± 1 kg *

Packaging: Shrink wrapped on wooden pallet
**Typical value for 10% alloying element*

Full traceability:
Producer, product name, heat number/coil number and remaining length of rod in the coil printed every meter.

aleastur aluminium

Aluminium Grain Refiners and Master Alloys

	ALLOY	European Standard (EN 575)	American Standard (AA)	Aleastur Colour Code	Forms
Aluminium Grain Refiners	AlTi5B1	AM-92256	H2252	🟢	Coil, Sticks, Contibar, Waffle
	AlTi5B0.2	AM-92252	H2207	🟢⚫	
	AlTi3B1	AM-92250	H2214	🟢🟤	
	AlTi3C0.15		H2231	🔴🟣	
	Other Ti:B and T:C ratios on request				
Aluminium Boron	AlB3	AM-90500	H2203	🟡	Coil, Sticks, Contibar, Waffle
	AlB4	AM-90502	H2204	🟡🟡	
	AlB5	AM-90504	H2217	🟡🟡🟡	
	AlB8		H2222	🟡⚫	
	AlB10		H2221	🔴🟡	
	Available forms subjected to B%. Others on request				
Aluminium Strontium	AlSr5	AM-93802	H2018	🔵🟡	Coil, Sticks, Contibar, Waffle
	AlSr10	AM-93804	H2007	🔵🔵	
	AlSr15		H2019	🔵🔵🔵	
	AlSr20		H2020	🔵⚫	
	AlSr10Ti1B0.2		H2017	🔵🔴	
	Available forms subjected to Sr%. Others on request				
Aluminium Calcium	AlCa10	AM-92000	H2001	🔴⚪	Coil, Sticks, Contibar, Waffle
	Available forms subjected to Ca%. Others on request				
Aluminum Titanium	AlTi5	AM-92201		🔴	Coil, Sticks, Contibar, Waffle
	AlTi6	AM-92202	H2206	🔴	
	AlTi10	AM-92204-92205	H2209-2210	🔴⚫	
	Available forms subjected to Ti%. Others on request				

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	ALLOY	European Standard (EN 575)	American Standard (AA)	Aleastur Colour Code	Forms
Aluminum Master Alloys	AlCr10	AM-92402	H2918	●	 Waffle
	AlCr20	AM-92404-92405	H2919-2920-2921	● ●	
	AlCu33	AM-92900-92901		● ●	
	AlCu50	AM-92902-92903	H2148-2149-2150	● ● ●	
	AlFe10	AM-92600-92601	H2810-2811	● ●	
	AlFe20	AM-92602		● ●	
	AlMg20	AM-91202		○ ●	
	AlMg50	AM-91204	H2011	○ ● ●	
	AlMn10	AM-92500-92501	H2410-2411	● ○	
	AlMn20			● ●	
	AlMn25		H2425	● ●	
	AlNi20	AM-92802	H2501	● ●	
	AlSb10	AM-95100			
	AlSi20	AM-91400-91401	H2320-2321	○	
	AlSi50	AM-91402-91403	H2350	○ ○	
	AlV5		H2605	● ●	
	AlV10	AM-92300	H2610	●	
	AlZr5	AM-94000-94001	H2607	●	
	AlZr6		H2606	●	
	AlZr10	AM-94002-94003	H2610-2612	● ● ●	
	AlZr15	AM-94004	H2615	● ●	

Aluminium Strontium Master alloys

Modification of eutectic and hypoeutectic AlSi alloys allows a transformation of coarse and acicular eutectic Silicon to a fine fibrous structure, redistributing the porosity (turning the macroporosity into microporosity) and thus improving the mechanical properties of the alloy.

ADVANTAGES

Aluminium Strontium Master Alloys are the most extensively used modifier due to:

- Higher performance of the Strontium when added in the form of Master Alloy
- Safer and easier handling and addition to the melt
- Less furnace lining erosion
- Minimal fading and the modification is retained even after several remelts

ALLOY RANGE

Produced from 99.7% purity aluminium Aleastur offers the widest range of AlSr Master Alloys, following American (AA) and European (EN 575:1995) standards

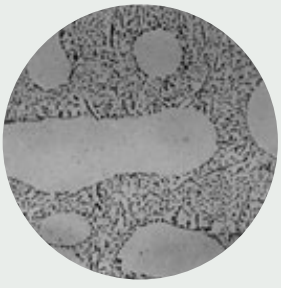
ALLOY	EN 575	AA	Aleastur Colour Code
AlSr5	AM-93802	H2018	
AlSr10	AM-93804	H2007	
AlSr15		H2019	
AlSr20		H2020	
AlSr10Ti1B0.2		H2017	

Available forms subjected to Sr%. Others on request

ADDITION

The Sr addition level to use will depend upon the Silicon content in the alloy. Modification of eutectic alloys is more complex than hypoeutectic ones, requiring higher addition rates, up to 0.03% Sr for the AlSi12 alloy. Sand casting requires higher addition rates than permanent mold and die-casting. Addition levels between 0.01% and 0.02% should be enough for permanent mold. When premium castings are produced, we recommend the use of both a modifier and a grain refiner.

Non modified Structure



Modified Structure

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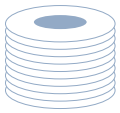
FORMS

Coil



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