

A.CESANA

Foundry products since 1879

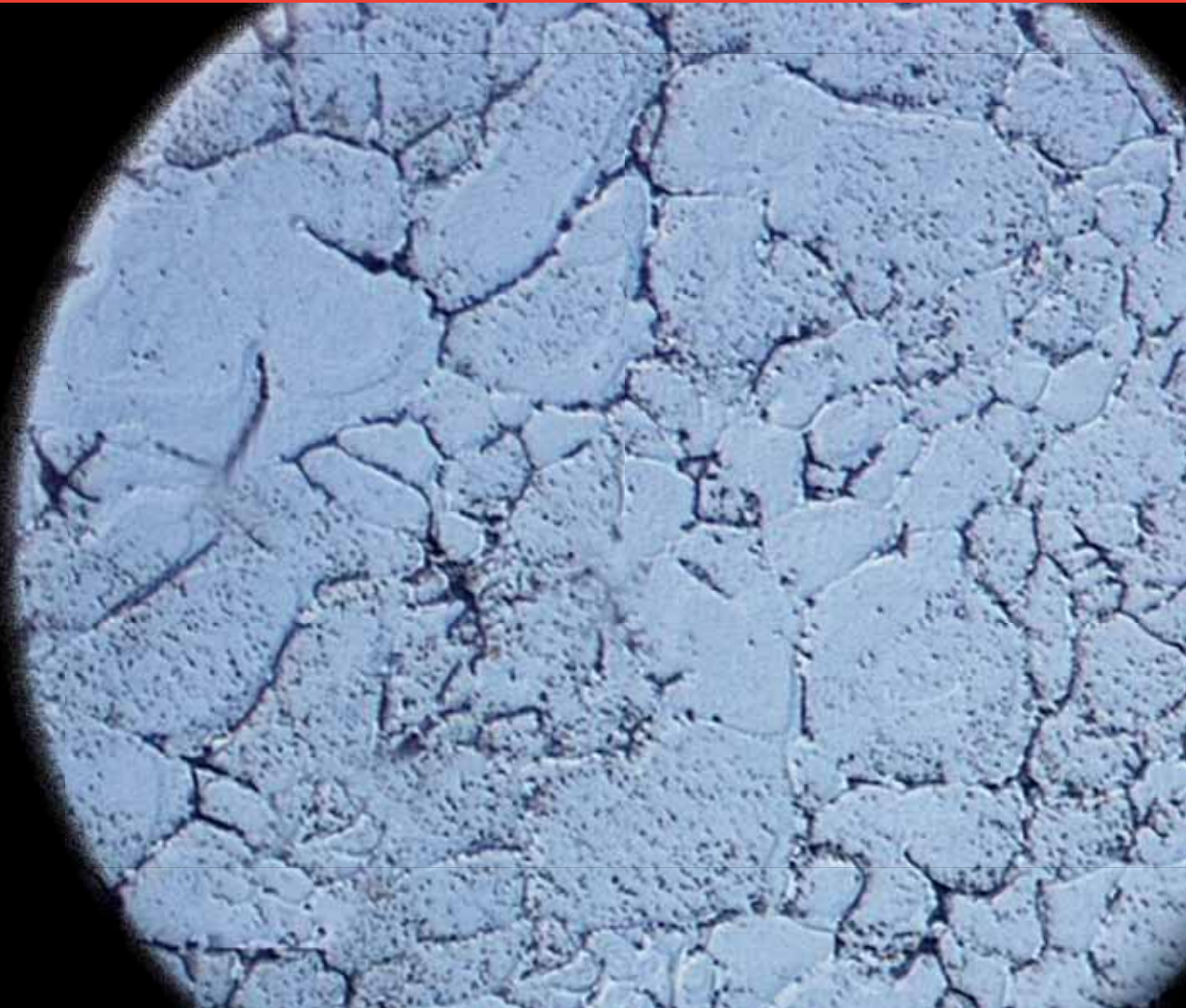
www.acesana.com

MAG= X 4.78 K PHOTO= 5

EHT= 20.0 KV WD= 3 mm
5.00µm |

L= SE1

A 4







Leading through tradition, experience and innovation



A. Cesana S.r.l. company, established in 1879 is a leading manufacturer of fluxes for the metallurgical treatment of non-ferrous metals, mold coatings low pressure/gravity, extrusion lubricants and high pressure die cast release agents.

The commitment to the market is constantly improving through a 100% customer orientated approach and demand satisfaction. Market needs are what we constantly work to realise, as historical records thought never to stop improving, never to be satisfied of the gained positions, but always look for further and better.

The company grew hold and reliable to casters reputation globally through a successful technical sales network and a series of products continuously under development, enabling our customers to improve their productive parameters.

Competing for the highest productive quality is a duty undertaken since many years, through a scientific approach to metallurgical problems and solutions, that's why research and development it's not just a marketing word on our catalogues, but the real room out of which our products come to you ISO 9001 certified.

It is since 1879 that we therefore have to thank you, for the possibility to work together, as without your successes, we wouldn't be successful too.



“ Our tribute to industrial research,
casting quality and your working
environment too,,





Crystal 2600

Granular flux for the metal treatment of Aluminium alloys



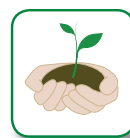
Crystal 2600 is produced in granular form and has an improved formulation to perform effective covering and drossing on molten aluminium alloys. The product is normally recommended for melts standing in melting furnace, in transport ladles or during rotor degassing in ladles and crucibles. The formulation is based on inorganic and natural blended salts. This gives no fumes, no burning drosses and other risks during handling and use. The flux is not suitable for those alloys not tolerating the presence of sodium.



- Smooth reaction.
- No presence of obnoxious compounds.
- Granular form: no dust, no emissions.
- Low dosage required.



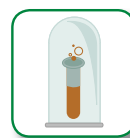
Formulated without toxic or obnoxious compounds



Low dosage requested



Granular form, no dust



No fumes or emissions during use



25 kg recycled paper bag

“ A selection of our best products
for the aluminium casthouses
and foundries,”





Aluxal 108

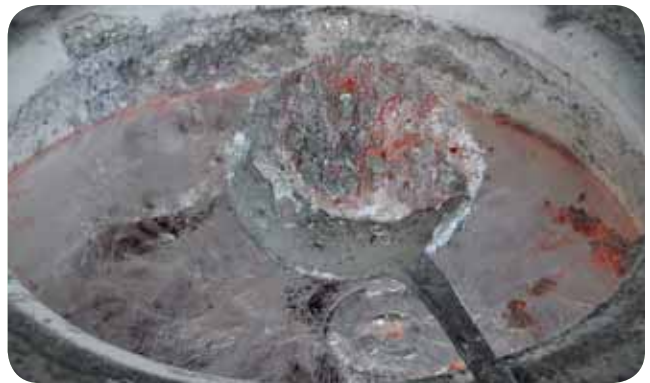
Covering and drossing-off flux for Aluminium foundries



Aluxal 108 is a powder flux studied for covering and drossing-off treatments of aluminium alloys used in aluminium re-melting shops or foundries producing gravity, low pressure, sand or lost foam castings. Recommended for temperatures of 680-760 °C and for reverberatory, crucible furnaces or transport ladles. Aluxal 108, when used as a covering flux, creates on the bath surface a barrier between flames and liquid metal reducing oxidation and metal losses. During drossing-off treatments, Aluxal 108 separates non-metallic inclusions and guarantees the removal of drosses with very low metal content. Aluxal 108 is not suitable for alloys containing Magnesium >3% and for alloys not tolerating Sodium based fluxes.



- Formation of physical barrier to reduce metal oxidation.
- Reduction of metal losses.
- Drosses with low metal content.



25 kg paper bag
laminated with polythene



Elidron 201

Washing-degassing-cleansing tablets



Elidron 201 releases Nitrogen gas which is useful for washing and degassing the molten alloy. Nitrogen gas removes hydrogen entrapped by the metal during melting operations and brings to bath surface all oxides, micro-oxides and impurities. Elidron 201 tablets have a combined effect. The tablets, dissolved by metal temperature, release nitrogen gas capable to remove hydrogen dissolved in the metal and non-metallic impurities floating inside the bath. The chemical compounds contained in the product are capable to react with oxides and to clean the alloy from non-metallic impurities.



- Oxides removing action.
- Controlled reaction.
- Low dosage.



20 kg boxes
25 kg boxes



Germinal 1520

Grain refining flux



This top quality product has ideal characteristics from the point of view of Ti: B ratio. The tablet contains only grain refining agents. For a complete distribution of Titanium Borides nuclei into the melt, it is necessary to degas the melt after the grain refining treatment. The stirring action, promoted by degassing, helps to obtain the desired metallurgical results. With Germinal 1520 it is possible to obtain very fine metal structures and, as a consequence, high mechanical characteristics. The positive action of Titanium and Boron favours the formation of large quantities of crystallisation nuclei and counteracts grain growth during thermal treatments of castings.



- Highest grain refining effect.
- Fast dissolution.
- Easy to operate.
- Dosage control.



25 kg boxes
30 kg boxes



Degassing stations

Avant-garde automatic units to degas molten Aluminium alloys



Automatic station to degass liquid metal with rotor system, designed for aluminum foundries. The controlled shaft+rotor rotation allows the distribution of micronized nitrogen (or argon) through the melt.

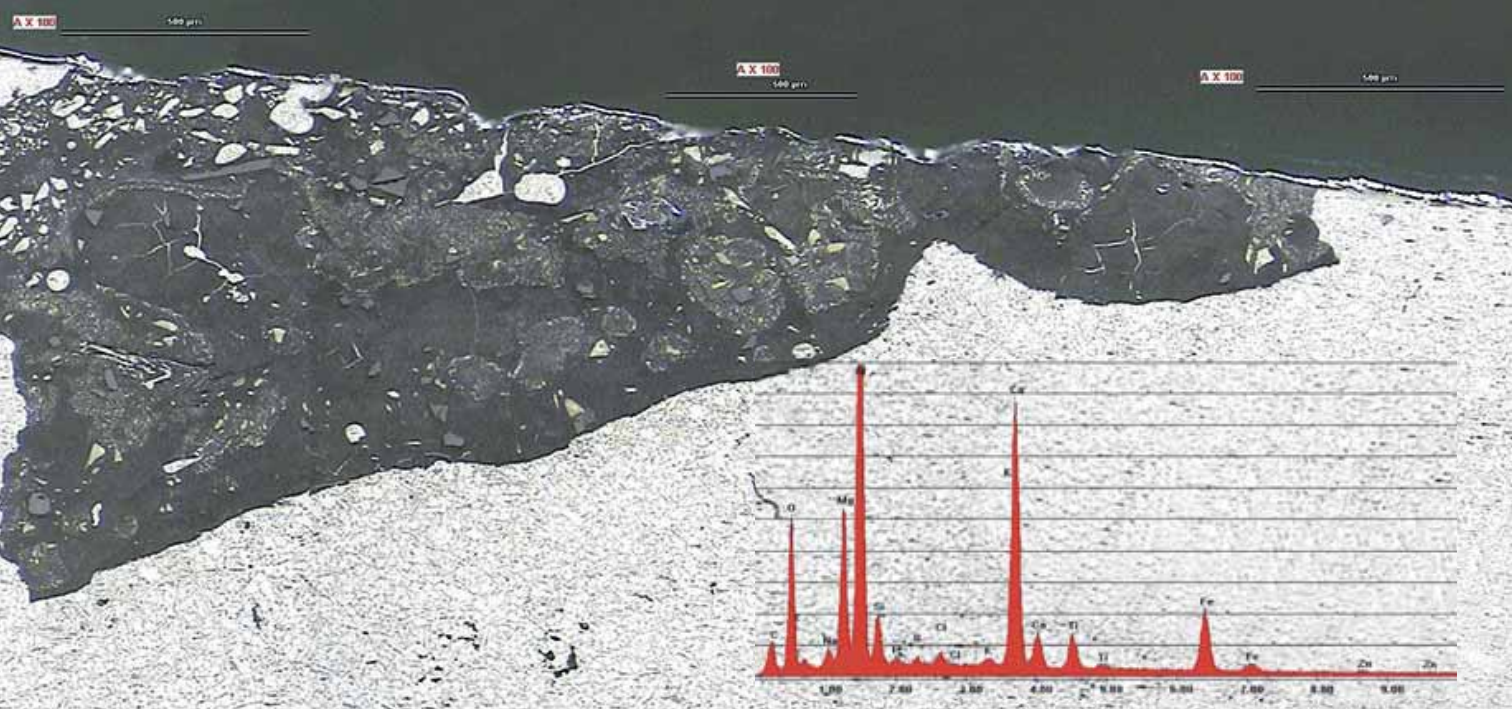
The unit can be provided with flux dosing device to add granular flux in the melt with a specific dose each cycle. Porosity, impurities and oxides are removed from the bath. Use of rotor degassing guarantees the purification of the alloy and reproducible density requirement.

Unit can operate at metal temperature ranging up to 820 °C.



- Automatised operations.
- Highest degassing effect.
- Standardised process.





Quality control

Equipments for the control of molten metal



Porosities are mostly due to molten metal gas inclusions and these are one of the most important sources of casts defects. The preventive control over molten metal with the combination of vacuum gas detector and density scale, do on the other hand, help any quality control laboratory or foundry man, to previously acknowledge the gas inclusion level, so to correct it through the usage of degassing technologies.

These instruments in fact, offer an easy and precise, gas test analysis over the sampling of in process molten Aluminium. GAS DETECTOR operates the STRAUBE-PFEIFFER principle, bringing porosities to the surface, during solidification the density index can be elaborated to guarantee a safe control for metal quality output.



- Accuracy.
- Reliability.
- Scientific control.
- Easy to operate.



“Coatings and release agents
to cast at your ideal,”





Ceracote BN 25

Protective coating, boron nitride based, for ceramic components and ceramic substrates in contact with aluminium or magnesium alloys



Ceracote BN 25 BLUES is a boron nitride based coating enriched with a special binder resistant to high temperatures and to the action of the liquid metal. It is studied to be applied with brush or spray gun. Ceracote BN 25 BLUES is recommended for porous and non-porous surfaces, insulation ceramic materials in the casting of aluminium or magnesium alloys that require non wetting characteristics on the metal.



- Ceramic surfaces ideal.
- Perfect adhesion.
- Metal flow top improver.



5 kg tins





Metalcote 27

Insulating dressing, with coarse texture, for gravity dies



Metalcote 27 is a medium insulating dressing widely used in aluminium gravity die-casting foundries.

Product especially developed for application on critical die areas where maximum flowability of molten aluminium is required.

These areas such as mold cavity, runners, feeders and gates must be protected with Metalcote 27, a rough coating offering long service life, strong adhesivity and good resistance to molten metal abrasion.



- Coarse surface finish
- Long working life
- Easy to remove after use



* Dedicated mixer for coatings.

7 kg tins



Metalcote 1995

New Protective coating for iron or steel ladles in contact with molten Aluminium alloys



Metalcote 1995 is a new protective agent coating for cast iron and forged steel tools in contact with molten Aluminium alloys. Ideal application on pouring ladles of pressure or gravity die castings.

It is designed to eliminate the erosion activity of Aluminium on the metallic surface of ladles or iron components.

Metalcote 1995 can be applied on metal substrate such as pouring stoppers of shaft melting furnaces and in stalk tubes gating area of low pressure dies and moving die mechanisms to implement lubrication.



- Extended corrosion resistance.
- High resistance to thermal shock.
- Non wetting properties.
- Easy removal of frozen skull.



4 kg tins
20 kg steel pails



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A. CESANA S.r.l.

Via Turati 23

20016 PERO (MILANO) ITALY

Tel. +39 02 3534941 - Fax +39 02 3390714

info@acesana.com