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TECHNICAL DATA SHEET

CRYSTAL 2026

Granular flux, sodium free, for drossing-off, deoxidizing and degassing treatments of aluminium alloys

DESCRIPTION

Crystal 2026, supplied in granules, is suitable for drossing-off and deoxidizing treatments and for automatic addition during rotor degassing treatment of molten aluminium.
The product is suitable for aluminium alloys including high Magnesium, Strontium treated Al-Si alloys and hyper-eutectic alloys.
Flux without sodium and calcium compounds which requires **low dosage**.

PRODUCT PHYSICAL DATA

Appearance:	Granular	**Colour:**	Light grey
Specific gravity:	1,1 - 1,2 g/cm^3	**Metal temperature range:**	720-780°C

METHOD OF USE

- **Reverberatory melting furnaces**
  In these types of furnaces, it is difficult to maintain a protective cover with a flux. Under these circumstances, the surface of the metal bath will be oxidised leading to formation of oxides of aluminium (Corundum).
  Resulting dross can be treated by sprinkling Crystal 2026 on the surface. This allows the release of metal and the trapping of floating oxides.
  Crystal 2026 reduces the dross metal content to a minimum.
  The oxides build-up is the main cause of hard-spots and leads to a reduction in furnace capacity.
  Cleaning consists of spreading a quantity of Crystal 2026 on the surface; then raking it backwards and forwards to promote reaction.
  After mixing operation and when the dross has become dry, metal can be transferred to the holding furnace.
- **Crucible furnaces**
  In crucible furnaces it is recommended to follow the same treatment described above.
  This will result in low metal content dross and a reduction of oxide build-up on the crucible walls. As a result, the thermal conductivity of the crucible remains constant and its service life increased.
  Using Crystal 2026 reduces the possibility of oxides falling from the crucible walls, leading to a major reduction in hard-spots and associated defects.
- **Transfer Ladles**
  Crystal 2026 is suitable for addition during degassing operations in transport ladles.
  The deoxidizing, degassing and cleaning action starts to take place after sprinkling the flux on top of the melt.
  Flux can be added just before degassing with rotors or as soon as the vortex of liquid metal is formed with the rotor movement.
  An exothermic reaction will re-heat the dross and release the combined metal.
  The dross, now dry and powdery, can be removed with a suitable skimmer. After Crystal 2026 use and after proper degassing treatment, the alloy will improve its density index value.
  Cast metal will be of consistent and excellent quality.

QUANTITY OF USE

The recommended amount of Crystal 2026 is 50-100 g for 100 kg of metal.

PACKAGING AND STORAGE

25 kg paper bag laminated with polythene, moisture resistant, heat sealed at the base.
Warnings: The product is hygroscopic. Store in a dry storage and close the package after each use.
If the product is stored in a dry place away from sunlight, the product does not expire.

Data sheet N° 117
Rev. 02
Data: 28-03-2025

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