



ALREFINE (GRAIN REFINING AGENT)



ALREFINE range of products are used for grain refining of aluminium and its alloys.

Aluminium and its alloys when allowed to cool under normal conditions, form coarse crystalline structure. This coarse grain structure is prone to -

- (a) Cracking during metal working
- (b) Poor feeding characteristics
- (c) Poor surface finish.

Alrefine addition overcomes these problems by producing fine and uniformly distributed grains.

BENEFITS: ALREFINE range of products –

- Improve feeding properties.
- Improve mechanical properties.
- Eliminate cracking tendency in rolled products.
- Improve surface finish and response to surface treatments.

APPLICATION DETAILS: Select the right grade from the table given below:

Product	Application Rate (%)	Alloys	Remarks
ALREFINE-27	0.1 – 0.2	All except high conductivity aluminium and hypereutectic Al. Si. Alloys	Nucleation by Titanium and Boron
ALREFINE-67	0.1 – 0.2	All except high conductivity aluminium & hypereutectic Al. Si Alloys	Nucleation by Titanium only
ALREFINE-186	0.1 – 0.2	High conductivity aluminium	Nucleation by Boron only
ALREFINE 6 / ALREFINE 6M	0.5 – 1.00	Al. Si. hypereutectic alloys	Nucleation by Aluminium Phosphide

- Melt under a suitable product from CLEANAL range & bring the melt temperature to a desired level.
- Plunge / add the recommended quantity of ALREFINE to the melt.
- When the reaction is over, degas the melt, dross-off and modify wherever required.

PACKING:

- Alrefine tablets are available in 50 gms, 100 gms, 250 gms and 500 gms packed in polylined aluminium foil and supplied in corrugated boxes of 12.5 Kgs and 25 Kgs.
- Alrefine-6 and Alrefine-6M are in powder form and available in 5 Kgs / 10 Kgs polybags packed in plastic container.

Manufactured by:
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