

ECO - DEGASER (DEGASSING TABLETS)

A range of chemical degassing and degassing cum grain refining agents for aluminum and its alloys.

GENERAL DESCRIPTION

ECO - DEGASER products are compacted tablets in different sizes to facilitate treatment of various melt sizes. They are plunged into aluminium melts for degassing.

PURPOSE

Even under the best melting conditions, it is often impossible to prevent hydrogen gas from entering the melt which finally gives rise to porosity in the cast products. It is therefore necessary to remove as much of hydrogen from the melt as possible prior to pouring.

ECO - DEGASER range of products remove the dissolved hydrogen by diffusion process. Degassing with these products is superior to flushing with chlorine gas which is associated with problems of space, equipment, corrosion, health hazards, etc. Some of the degassing products contain grain refining elements also and these products function as combined degassing and grain refining agents.

SPECIFICATION

Colour	:-	ECO - DEGASER (100 GM / 500 GM)	WHITE/BLUE/VOILET
Form	:-	Tablet	
Moisture	:-	0.05% Max.	
Density	:-	1.70-1.90 Gms / Cc	
Weight	:-	50 Gms & 100 Gms	(+/- 2 Gms)
		250 Gms & 500 Gms	(+/- 4 Gms)

INSTRUCTIONS FOR USE

Select the right grade of DEGASER from the application guide given below

	COLOUR	FUNCTION	ALLOY TYPE	APPLICATION RATE *	COMMENT
DEGASER	WHITE/ VOILET	Degassing	All	0.15-0.20 %	Maximum Degassing potential
DEGASER	Blue	Degassing and grain refining	All	0.15-0.20 %	General type used for most applications

* Approximate application rate have been given in this application guide

- Plunge the recommended quantity as per the application guide to the bottom of the melt using a preheated cylindrical or rectangular basket type plunger when the temperature is falling. The degassing should be continued until the bubbling ceases.
- Coat the plunger with a refractory coating to prevent iron pick up. Dry the plunger completely before use.
- Remove the wrapper before the ECO - DEGASER tablets are plunged, otherwise metal may pick up hydrogen from the decomposition products of the wrapper. Do not expose ECO - DEGASER tablets to atmosphere as far as possible as moisture pick up would result.
- As a gentle rolling action creates more efficient degassing than a turbulent action, apply ECO - DEGASER tablets in two or more successive operations rather than in a single operation.
- In case of Al-Si Hypoeutectic and eutectic alloys, degas before modification treatment. This helps in securing a constant degree of modification by destroying any existing modification and then remodifying to a known and desired extent.
- In case of Al-Si hypereutic alloys, degas before and after grain refining treatment. This helps in knocking off sodium present in the melt before grain refinement and in getting better dispersion of the primary silicon particles after grain Reinement.

CUSTOMER BENEFITS

ECO - DEGASER range of products :

- Eliminates hydrogen gas porosity, removes non-metallics and enables to achieve polished finishes for plating and anodizing.
- Improves mechanical properties.
- Are available in tablet form and can be plunged with a simple plunging tool.
- Are supplied in a wide range of grades and sizes for economical, accurate and efficient metal treatment.

STANDARD PACKING

ECO - DEGASER tablets are available in two sizes 100 gm and 500 gm.

ECO - DEGASER tablets are wrapped in poly lined paper foil and supplied in cardboard boxes.

SAFETY PRECAUTIONS

1. Avoid inhalation of dust.
2. Use of protective gloves and nose napkins recommended.