



CERAFLUX
An ISO 9001 Certified Company

**"The Only Indian Company Manufacturing
Wide Range of Metallurgical Products "**

CERALOY-TiB(5:1/3:1)

GENERAL DESCRIPTION:

CERALOY TiB is a grain refiner for Al-Si hypo-eutectic and eutectic alloys, it is available in different compositions like 5:1, 3:1 etc. CERALOY TiB is recommended for grain refining aluminium alloys.

PURPOSE:

Generally aluminium and its alloys solidify in heterogeneous manner to give coarse dendritic structure. Coarse grain structure imposes problems like poor mechanical properties, poor feeding characteristics, and gives poor response to surface and heat treatment processes.

CERALOY-TiB is recommended to overcome many of the above problems. Being metallic in nature, CERALOY-TiB dissolves readily in aluminium alloys and thus gives more consistent results as compared to salt-based grain refiners. It has superior fade resistance and hence retains the refinement effect over a much longer period of time. Use of CERALOY-TiB is far more environment friendly than the conventional salt based refiners. Since no chemical reaction is involved, crucible life can be improved.

ADVANTAGES:

CASTING WITH IMPROVED AND CONSISTENT MECHANICAL AND METALLURGICAL PROPERTIES: - CERALOY improves as –cast mechanical properties such as tensile strength and elongation. The longer modification effect gives consistent metallurgical and mechanical properties of the castings.

BETTER MACHINABILITY: - The refined metallurgical structure and improved distribution of silicon phase gives better machinability and improved surface texture.

ENVIRONMENTAL CLEANLINESS: - Use of CERALOY gives cleaner working environment since no chemical reaction is involved.

INSTRUCTIONS FOR USE:

Prepare the desired alloy composition. Follow the normal fluxing and cleansing procedure recommended by using suitable flux from CERAFLUX range. Degas the melt with degassing tablet by using suitable grade from CERAFLUX range and dross off using small quantity of CERAFLUX-11. After the degassing operation, add CERALOY-TiB and rabble it to ensure homogeneity of the composition.

ALLOY	% Ti	%B	% OTHER	ALUMINUM
TiB-3:1	2.5-3.5	0.8-1.0	0.5 max	balance
TiB-5:1	4.5-5.5	0.8-1.0	0.5 max	balance

APPLICATION RATE: 0.2-0.3% of CERALOY –TiB

PACKING: CERALOY-TiB is available in 20 kg gunny bag.

Each cast waffle weights approx. 200gms and 9.5mm rod approx. 100gms

NOTE:- Above information is true and accurate based on controlled laboratory testing. However user is responsible for determining suitability for application at their end. No guarantee is implied since the condition in actual use differs widely & beyond our control.

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