JHIHGUAN METAL & MATERIAL CO., LTD.
JHIHGUAN INTERNATIONAL TRADING CO. LTD.
志 冠 金 屬 材 料 有 限 公 司

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PRODUCT DATA SHEET

Foundry Flux: Refining Agent
Item No.: JIT-J1, JIT-J2, JIT-J3, JIT-J4, JIT-J5, JIT-J6, JIT-J7, JIT-J8
Factory: WuYi Sunrise Metal Materials Co., Ltd., in Zhejiang, China

Refining flux series

A range of Jhihguan refining fluxes for the injection into aluminum with carrier gas primarily for cleaning purposes.

PRODUCT DESCRIPTION

There are many formulations of these Jhihguan flux injectable fluxes designed to be used on a range of aluminum and its alloys in a variety of different melting units. All are in powder form and are supplied to a high sieve grading and moisture content specification. They are packaged in smaller sacks which are normally polythene lined.

PRODUCT FUNCTION

The injectable fluxes are normally injected into the bottom of the furnace of metal using nitrogen as a carrier gas. The principle is to perform a fluxing and partial degassing technique in one operation. The range of fluxes has the following

- ☐ Cleansing and dross-off to leave a dry dross free of metallic aluminum.
- ☐ The use of sodium free fluxes for aluminum magnesium alloys.
- ☐ The reclamation of swarf and skimmings to obtain a good metal yield.
- ☐ The removal of oxides entrained in the melting furnace.

PRODUCT SELECTION

This can divided into two parts, primarily those fluxes for use in the foundry environment and those fluxes for use in the wrought aluminum industry. In the foundry environment the range of fluxes used are JIT-J8. Their uses are respectively cleansing, modification, cleansing where sodium containing fluxes can be particularly harmful and low temperature exothermic flux for cleansing of aluminum alloys. In the wrought aluminum industry sector the common fluxes are JIT-J1 series for sodium and lithium removal. Care should be taken if injection of the foundry fluxes is made into reverbratory furnaces as due to their exothermicity a great deal could be generated. The normal application rates are 0.1-0.5% by weight of the Jhihguan refining flux.After the injection process has been completed the melt is notmally allowed to stand for 2-3 minutes to allow any exothermic reaction to finish. The powdery dross is always removed before casting

Product Name	Flux type	Melting point℃	Dross type	Melting unit	Alloy types	Remarks
JIT-J1/JIT-J4/JIT-J2	Refining flux	680	Dry	Reverberatory,Rotary,Tilter and Large Electric resistance Furnace	All aluminium alloys except those containing high magnesium	Used for producing extrusion billet and ingot
JIT-J5	Refining flux	650	Liquid	Reverberatory, Rotary, Tilter Furnace	high magnesium Aluminum Alloys	Used for producing extrusion billet
JIT-J3	Refining flux	650	Dry	Reverberatory, Rotary, Tilter Furnace	All aluminium alloys except those containing high magnesium	Used for producing extrusion billet and Slab
JIT-J6	Refining flux	670	Dry	Reverberatory, Rotary, Tilter Furnace	All aluminium alloys except those containing high magnesium	Used for producing extrusion billet(Green
JIT-J8	Refining flux	650	Dry	Reverberatory, Rotary, Tilter Furnace	Used in hypo-eutectic aluminum silicon alloys	Sodium free