

COVERALL-11

(Exothermic Drossing Flux For Aluminium Alloys)

PRODUCT:

COVERALL - 11 is Pinkish Colour powder made from Salts of Chloride & Fluorides recommended for cleansing and drossing operation.

FUNCTION:

It is used for forming a protective layer and for removing oxides , non desired Elements (Ca , Na; Li , Mg) /non metallic inclusions from the molten metal.

During melting aluminium gets easily oxidised and forms aluminium oxide.

This layer of aluminium oxide is broken due to metal charging of ingots/scraps or for any other reason. The density of aluminium oxide is nearer to that of aluminium metal. Due to this density effect, it is difficult to separate oxide or better known as dross, from the metal.

This causes loss of metal due to dross formation and metal going along with the dross during dross removal and hence causes deterioration in quality of metal.

For this reason, melting is done under the cover of a flux which prevents dross formation and hence metal loss.

Since COVER AL-11 is mild exothermic in nature to use, it also helps metal in separation from oxide/dross as well as in removing non-metallic inclusions from the molten metal.

****Quantity to be used is 0,3 KG for 1 MT MELTING FURNACE.**

****Other fluxes have NaCl but Coverall-11 has KCl.**

KCl, best separates metal from dross.

PHYSICAL PROPERTIES:

PHYSICAL STATE & APPEARANCE	GRANULAR POWDER /PINKISH IN CLOUR
ODOUR	ODORLESS
MELTING POINT	575 °C
SOLUBILITY IN WATER	PARTIALLY SOLUBLE IN WATER
MOLECULAR WEIGHT	239,72
DENSINTY	2,1 gms/CC
PARTICLE SIZE	GRANULES GENERALLY OF 1-3 mm

CHEMICAL COMPOSITION:

NAME OF CHEMICAL	COMPOSITION IN	%	CAS NO
SODIUM CHLORIDE	NaCl	30,0	7647-14-5
POTASSIUM CHLORIDE	KCl	20,0	7440-09-07
SODIUM SILICO FLUORIDE	Na ₂ SiF ₆	15,0	16893-85-9
SODIUM ALUMINIUM FLUORIDE	NaAlF ₄	15,0	15096-52-3
SODIUM SULPHATE	Na ₂ SO ₄	10,0	7757-82-6
SODIUM CARBONATE	Na ₂ CO ₃	10,0	497-19-8

APPLICATION NOTE:

Take requisite quantity of COVERALL-11 as recommended.

When melt is ready; add the recommend quantity (normally is 0,3 kg for 1MT) at a temperature 680 °C – 700 °C (Do not exceed 730 °C) , allow to stand for 10-15 minutes.After take dross from surface.

Do not mix ,not do immersed to depth.

STANDARD PACKING: 25 KG BAG.