
ECO – DEOXIDISING TUBES

PRODUCT DATASHEET

(For controlled deoxidation and improvement in the fluidity of copper base alloys.)

General Description:

ECO - DEOXIDISING TUBES comprise of a range of various reducing agents contained in pure copper and brass tubes for controlled deoxidation of copper and its alloys

Purpose:

Oxides are formed during melting of copper and its alloys. These oxides, if allowed to remain in the melt, cause sluggish and gassy metal leading to low mechanical properties of the cast parts.

These oxides are reduced from the melt by the introduction of ECO - DEOXIDISING TUBES.

ECO - DEOXIDISING TUBES contain very reactive reducing agents which form stable oxides by combining with oxygen. Such oxides can be easily separated from the melt and thus the metal quality is improved.

ECO - DEOXIDISING TUBES offer an easy method for making controlled and correct addition of deoxidising agents to the melt.

The dissolution of ECO - DEOXIDISING TUBES is rapid and uniform hence it results incomplete and efficient deoxidation of the metal.

Benefits:

1. Dissolution of deoxidant is rapid and uniform thus melt treatment time is reduced.
2. Very convenient and accurate method of deoxidation which prevents casting rejection due to oxygen blow holes.
3. Metal fluidity is improved and major causes of porosity in the castings are eliminated.

Instructions for use:

1. Melt down under the cover of an appropriate flux like ECO - CUPREET, ECO -CUPREX, ECO - ALBROL.
2. Degas with ECO - LOWGAS blocks
3. Immediately before pouring, plunge ECO DEOXIDISING TUBES right to the bottom of the melt. Stir the melt well, skim and pour.

Standard packing: 100 Nos. in CB box.

Other ECO - ORRO products for casting copper and its alloys

Melting fluxes : ECO - ALBROL, ECO - CUPREET, ECO - ALMINAL & ECO -SLAX

Degassing fluxes : ECO - LOWGAS

Product Application:

The following table lists the various grades of DEOXIDISING TUBES and their application to a range of alloys.

Alloy	Tube Grades	Tube for size and quantity to be applied					
		25 kg	50KG	75KG	100KG	200KG	400KG
Commercial Copper	DS	2Nos DS3	3No DS4	6 Nos DS 3	6 Nos DS 4	3 Nos DS 6	6 Nos DS 6
High conductivity Copper	DS & CB Or L	1 No DS 1 & 1 No CB 3 or 1 No L0	1 No DS 2 & 2 Nos CB 3 or 1 No L1	1 No DS 3 & 3 Nos CB 3 or 3 Nos L0	6 Nos DS 4 & 4 Nos CB 3 or 2 Nos L1	2 Nos DS 4 & 8 Nos CB 3 or 4 Nos L1	1 No DS 6 & 16 Nos CB 3 or 8 Nos L1
Brass	DS	1 No DS 1	1 No DS 2	1 No DS 3	1 No DS 4	2 Nos DS 4	1 No DS 6
Bronze & gun metal	DS	1 No DS 2	1 No DS 3	1 No DS 4	1 No DS 3 & 1 No DS 4	3 Nos DS 4	4 Nos DS 3 & 4 Nos DS 4
Aluminium bronze & manganese bronze	E	1 No E 1	2 Nos E 1	3 Nos E 1	2 Nos E 3	4 Nos E 3	8 Nos E 3
Nickel silver alloy (castings)	E & DS	1 No E 3 & 1 No DS 2	2 Nos E 3 & 1 No DS 4	3 Nos E 3 & 2 Nos DS 3	4 Nos E 3 & 2 Nos DS 4	8 Nos E 3 & 1 No DS 6	16 Nos E 3 & 2 Nos DS 6
Nickel silver alloys (for hot & cold working)	NS	1 No NS 4	2 Nos NS 4	3 Nos NS 4	4 Nos NS 4	8 Nos NS 4	16 Nos NS 4
Nickel-bronze & Copper-nickel alloys	MG	6No MG4	6No MG4	2 Nos MG 6	3 Nos MG 6	6 Nos MG 6	12 Nos MG 6

Application rates shown in the table are guidelines and will have to be adjusted depending on the condition of the melt.