



TECHNICAL DATA SHEET: **SILBOND 03**

PRODUCT DESCRIPTION

SILBOND 03 A is a high performance collapsibility agent for the CO₂ process suitable in all ferrous and non ferrous application. A major problem with CO₂ process is poor collapsibility of moulds and cores after pouring the casting. This leads to higher fettling rate time and chipping marks on the casting. **SILBOND 03 A** is a low density powder which when mixed with sand grains burns out resulting in pores and voids thereby improving the collapsibility properties of the mould/cores.

HOW TO USE

SILBOND 03 A is a powder which has to be premixed with clean, dry and clay free sand used for CO₂ process. The normal addition rate varies from 1 to 2% of sand weight. However the exact percent of **SILBOND 03 A** required depends on the foundry practice. The premixed sand can then be used in the standard manner by mixing it with silicate, making the cores/molds by ramming. Carbon dioxide is then passed in cores/moulds using similar techniques practiced in conventional CO₂ process i.e., at same flow rates and pressures. Care should be taken to ensure that even a small quantity of clay or moisture will affect the strength of cores/moulds.

INDICATIVE SPECIFICATIONS

PROPERTY	RANGE
PRODUCT NAME	SILBOND 03 A
Appearance	Powder
Colour	Reddish brown
Moisture	1% max
Mesh Size	-40
Shelf life	6 months

PACKING DETAILS

SILBOND 03 is supplied in 15 Kg HDPE bags. The product should be stored in a cool and dry place.



MATERIAL SAFETY DATA SHEET: **SILBOND 03**

1. CHEMICAL IDENTITY	
Chemical Name	: Inorganic additives.
Chemical Classification	: Mixture of minerals
Trade Name	: SILBOND 03 A
2. PHYSICAL AND CHEMICAL DATA	
Appearance	: Reddish brown colour.
Physical state	: Powder
Odor	: Odorless
3. FIRE & EXPLOSION HAZARD DATA	
Flammability	: No
Auto Ignition Temperature	: None
Corrosive Material	: No
Explosive Material	: No
4. REACTIVITY DATA	
Chemical Stability	: Stable
Incompatibility with Other materials	: Data not available
Hazardous reaction product	: None
5. HEALTH HAZARD DATA	
Route of Entry	: Skin
Effects of Exposure	: Constant exposure and inhalation cause mild irritation to the nose, eyes and skin. Wash the affected area with lot of water and consult a doctor.
6. PREVENTIVE MEASURES	
Personal protective equipment	: Avoid direct contact with hands, use gloves wherever possible.
Handling & Storage precautions	: Keep in a cool and dry place.
7. EMERGENCY & FIRST AID MEASURES	
Fire	: Use water.
Spillage	: Sweep away the spilled material.
8. HANDLING & DISPOSAL	
Empty Bags	: Never use empty bags for storing food stuffs or other materials meant for human and animal consumption. Empty bags may be sold as scrap or to HDPE recyclers approved by the State Pollution Control Boards
9. MANUFACTURER / SUPPLIER DATA	
Name	: Quality Technologies Private Limited
Address	: No.34, Rd. No.1, IDA Mallapur, Nacharam, Hyderabad – 500 076
Telephone	: 040 27153888, 27155828
Fax	: 040 27152567
e-mail	: info@qtecindia.com
10. DATE OF INFORMATION	: 01.01.2008.

DISCLAIMER: This information is furnished without warranty of any kind. It is based on our knowledge and is believed to be reliable. This information does not contain any assurance of technical properties or suitability for a specific application or results. We reserve the right to change specs. without prior notice as a natural consequence of our continuous efforts in product development and improvement.