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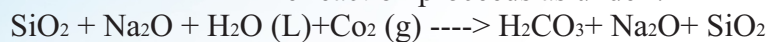
## **SANDSIL -123 M**

**(Silicate base binders with inbuilt breakdown agent)**

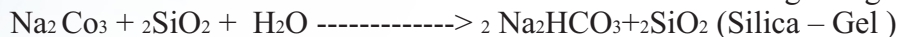
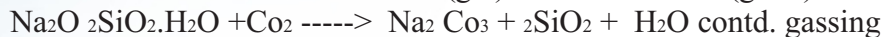
**The Product** SANDSIL-123M is a sodium- silicate base binder with adjusted ratio of Na<sub>2</sub>O : SiO<sub>2</sub> for making moulds and cores by Co<sub>2</sub> process. This product is specifically designed where cores are prepared by shooting process.

**The Process** SANDSIL-123M - Co<sub>2</sub> process is based on principle of precipitation silicate solution by Co<sub>2</sub>

The reaction proceeds as under :



Carbonic acid reacts with sodium silicate and forms silica gel



Dehydrates the Gel giving bond

When the SANDSIL is mixed with Sand, the sand grains are covered with a thin film of SANDSIL, on blowing Co<sub>2</sub> gas, the individual Sand grains are cemented to each other at their contact points by Silica -Gel to give a firm bond.

**Mixing Cycle** Dry Silica Sand (AFS55#65) : 100 Parts  
SANDSIL : 4 to 5 Parts.

**Mixing Time** 3 to 4 Minutes.

Mixed Sand should be covered with wet cloth for increasing the bench life.

### **Physical Properties**

#### **PROPERTIES**

|                             | SANDSIL-123M             |
|-----------------------------|--------------------------|
| Colour                      | Bluish                   |
| Appearance                  | Liquid                   |
| Breakdown properties        | Excellent                |
| Specific Gravity @27°± 3° C | 1.45 – 1.55              |
| Baume@27°± 3° C             | 47 – 52                  |
| Application                 | Heavy C.I. Steel Casting |

**Standard Packing-** 200 Kg. MS Barrel / 30 Kg Plastic carboy

**Shelf Life-** NA

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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