

# PRODUCT INFORMATION SHEET

## MAGFLUX

**TRADE NAME**

**MAGFLUX®**

**DESCRIPTION**

Magflux® is a blended, refined form of blast furnace slag which predominantly consists of CaO, SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub> and MgO. Its mineral composition is a mixture of akermanite (2CaO, MgO, 2SiO<sub>2</sub>), gehlenite (2CaO, Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>) and small amounts of anorthite (CaO, Al<sub>2</sub>O<sub>3</sub>, 2SiO<sub>2</sub>).

**FUNCTION**

Magflux® is added to a glass batch as a fining agent and its reducing action helps liberate retained gases from the glass batch, which may cause defects such as seeds and blisters. Also, the addition of Magflux® forms a lower eutectic with silica resulting in a lower melting temperature and lower energy cost. Furthermore, a more active melt is produced thus improving homogeneity in the batch temperature and composition.

**TYPICAL CHEMICAL ANALYSIS**  
(full analysis on application)

SiO <sub>2</sub>	37.7%
Al <sub>2</sub> O <sub>3</sub>	13%
Fe <sub>2</sub> O <sub>3</sub>	0.76%
CaO	35.1%
MgO	8.09%
TiO <sub>2</sub>	0.73%
MnO	1.17%
K <sub>2</sub> O	1.87%
Na <sub>2</sub> O	0.36%
S	0.88%

**TECHNICAL DATA**

Specific weight	2.79 g/cm <sup>3</sup>
Bulk weight	1.4 kg/L
Particle shape	Angular
Storage	Dry, sheltered storage conditions

**SIEVING RANGE**

SIZE RANGE (micron)	PERFORMANCE CHARACTERISTICS
150 - 1000	Magflux® improves the durability and quality of glass. It also improves the melting efficiency of the glass batch and the thermal shock resistance of container glass.