

MATERIAL SAFETY DATA SHEET

Material: MULLITE/CORDIERITE AND ZIRCON REFRACTORY BASED PRODUCT.

Product Code: C.O.L 10

Description: Slip cast refractory material based in a rich fused silica / zircon / mullite composition with excellent thermal stability at temperatures up to 1280 °C.

Chemical Name and Formula: Cordierite ($2\text{MgO} \cdot 2\text{Al}_2\text{O}_3 \cdot 5\text{SiO}_2$); Mullite ($2\text{Al}_2\text{O}_3 \cdot 5\text{SiO}_2$); Zircon Silicate (ZrSiO_4)

Manufacturer: Estiva Refratários Especiais Ltda.
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Physical Properties

Physical Aspect:	Solid material presented in several shapes and dimension
pH:	Not determined
Color:	Light brown
Smell:	None
Water Solubility:	Insoluble

Chemical Elements (Typical values in % Weight)

Al_2O_3	25,5
SiO_2	58,7
Fe_2O_3	0,68
MgO	0,02
TiO_2	0,63
CaO	0,01
$\text{Na}_2\text{O} + \text{K}_2\text{O}$	0,59
ZrO_2	13,9

Diffratogram Analysis (% Weight)

Cordierite + Mullite:	25 - 35
Crystalline Silica (total):	55 - 65
Cristobillite:	Traces
Tridymite:	Traces
Quartz:	15



Estiva Refratários
Indústria de refratários especiais.

Fire and Explosion Data

Flashpoint: Not available
Auto Ignition Temperature: Not available
Air Inflammability Limit: Not available
Product non-flammable and of no risk of explosion.

Reactivity Data:

With Air: None
With Water: None
With Heat: None
With Oxidizing Atmosphere: None
Product non-corrosive.

Health Hazard Information:

Product not hazardous and of no risk to the health with no toxicity by ingestion or skin and eye irritant.

Additional Data:

Handle the material with care and the use of gloves are highly recommended due to its abrasiveness. Storage must be in a proper area and stacking the pallets should not exceed three (3) units high.