



DESCRIPTION: **STARFLOW**[™] **KLS** is a sintered mullite based (dry applied) product designed specifically for maintenance of hot glass furnaces and forehearths. **STARFLOW**[™] **KLS** is composed of carefully sized aggregates, in addition to a unique binder package that enhances ease of application, sintering and elevated temperature performance.

Packaging:
 50 lb. pails 48 pails/ pallet

<u>CHEMICAL COMPOSITION:</u>	<u>Typical</u> (Ignited Basis)
Al ₂ O ₃	63.0%
SiO ₂	28.8
Na ₂ O	6.1
TiO ₂	1.3
Fe ₂ O ₃	0.7
Others	0.1

PHYSICAL PROPERTIES: Typical, as determined on test specimens. ASTM methods used were applicable.

Refired to °F	Bulk Density (lbs/ft ³)	Linear Change (%)	Modulus of Rupture (psi)	Hot Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Apparent Porosity (%)	Abrasion Volume Lost (cc)
1500	112	0.2	1540	510	2610	37	7.2

SERVICE LIMIT: 3000 °F

APPLICATION METHOD: **STARFLOW**[™] **KLS** is a dry mix that requires no addition of water or any gunning equipment to apply. Install **STARFLOW**[™] **KLS** by placing the material as received into the desired location of the glass furnace or forehearth. A minimum temperature of 1000 °F is required to activate the material. *Note: installations over 2500 °F require as little as 1 minute for curing and drying.* Once activated, the material will flow and level to reprofile the affected areas.