# WOLLITE

## POURABLE BACKUP INSULATION FOR ALUMINIUM AND GLASS APPLICATIONS

Wollite is a pourable, lightweight mineral foam insulation material. The material is suitable for insulating refractory liners or any complex refractory shapes. Wollite is composed primarily of the calcium silicate-based mineral wollastonite. It has very low thermal conductivity, which results in even temperature distributions and low thermal loss.

After mixing and pouring, Wollite expands and solidifies to a durable insulating foam. This material can be removed and reinstalled quickly, which allows for shorter refractory change-out times. Wollite is naturally non-wetting and protects equipment against molten liquid contact.

### BENEFITS

- Uniformly fills narrow and complex cavities
- Low viscosity during pouring
- Highly insulating
- Easy and safe removal and reinstallation
- Contains no refractory ceramic fibres (non-RCF)
- Low thermal conductivity
- Thermal shock resistant
- Naturally non-wetting

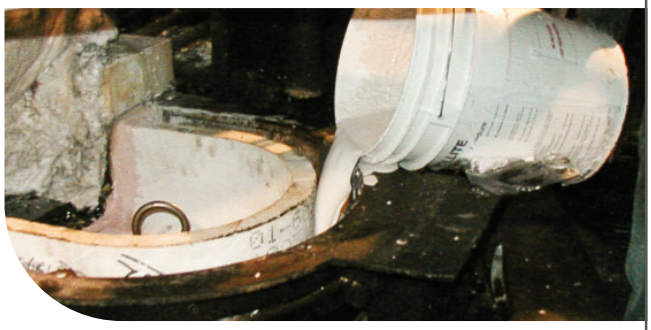
### APPLICATIONS

**ALUMINIUM**

Backup insulation for small furnaces, transfer ladles, troughs and filter boxes

**GLASS**

Backup insulation for orifice rings and spouts



### AVAILABILITY

Only Wollite 30ST-1 is available in ready to mix kits. After mixing, one combined kit of Wollite 30ST-1 fills 0.03m$^3$ (1.0 ft$^3$) of space. The kits include:

- PART A: 22.5 kg (50 lb) refractory slurry
- PART B: 5.6 kg (12 lb) activator

Contact a Pyrotek sales engineer for other available Wollite varities.

### STORAGE

- Wollite PART A and PART B have no predetermined shelf life. However, to avoid difficult resuspension of the PART A component (which settles over time), Wollite should be used as soon as possible after purchase
- Store Wollite in temperature controlled areas to avoid freezing. Ensure optimal working time by cooling Wollite to ≤18°C (≤64°F) before use. Working time decreases as Wollite's initial temperature increases

### HEALTH AND SAFETY

Prior to use, refer to the product safety data sheet for proper handling and required personal protective equipment.

Pyrotek

WOLLITE

| Product | Wollite 30 and Wollite 30ST-1* | Wollite 37 | Wollite 45 |
|---|---|---|---|
| Density–kg/m$^3$ (lb/ft$^3$) | 480 (30) | 593 (37) | 721 (45) |
| Cold Crushing Strength–MPa (psi) | 2.51 (364) | 4.14 (600) | 5.86 (850) |
| Modulus of Rupture–MPa (psi) | 0.95 (138) | 1.36 (197) | 1.74 (252) |
| Thermal Conductivity–<br>W/m·K (BTU·in/ft$^2$·hr·°F)<br>at 25°C (77°F)<br>at 125°C (257°F)<br>at 250°C (482°F)<br>at 350°C (662°F)<br>at 500°C (932°F)<br>at 600°C (1112°F) | <br><br>0.10 (0.69)<br>0.11 (0.76)<br>0.12 (0.83)<br>0.13 (0.90)<br>0.14 (0.97)<br>0.15 (1.04) | <br><br>0.12 (0.83)<br>0.13 (0.90)<br>0.14 (0.97)<br>0.15 (1.04)<br>0.16 (1.11)<br>0.17 (1.18) | <br><br>0.12 (0.83)<br>0.13 (0.90)<br>0.14 (0.97)<br>0.15 (1.04)<br>0.16 (1.11)<br>0.18 (1.25) |
| Maximum Use Temperature | 1000°C (1832°F) | 1000°C (1832°F) | 1000°C (1832°F) |
| * Only Wollite 30ST-1 is available in ready to mix kits. | | | |



*Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.*

*MAR-21-EN-767*

*Product Type: 106*
*Commodity Code: 02031, 02032, 02033*