

## FILLITE Microspheres LIGHT WEIGHT ADDITIVE

**Description** FILLITE microspheres consist of hollow inorganic spheres which are competent to 6,000-psi pressure. FILLITE provides a means of preparing lightweight cement slurries in the range of 8 to 12 lb/gal.

**Properties**

Form: Spheres	Color: Grey
Odor: None	Solubility: Insoluble in water
Flash Point: None	Bulk Density: 25 lb/ft <sup>3</sup>
Specific Gravity: 0.76	Water Requirement: 95% of the weight of FILLITE

**Application** FILLITE can be used from 10 to 180 lb per sack of cement to design slurries in weight ranges of 8 to 12 lb/gal which produce adequate compressive strength in a minimum period of time at relatively low curing temperatures. Lightweight slurries prepared with FILLITE will normally give significantly higher 24-hour compressive strength than equivalent density slurries prepared with bentonite, Gilsonite or silicate extenders. FILLITE also improves the insulating properties of cement and can be used at temperatures of 40° to 800°F. FILLITE can also be used as a lost circulation aid by reducing slurry density and thereby preventing formation breakdown. FILLITE has a pressure limitation of 6,000 psi regardless of the placement depth.

Sufficient slurry viscosity must be maintained to insure uniform distribution of FILLITE and keep them from floating out.

FILLITE EFFECTIVE ABSOLUTE VOLUME	
PSI	GALLON/POUND
0	0.1753
500	0.1578
1000	0.1527
2000	0.1447
3000	0.1386
4000	0.1325
5000	0.1268
6000	0.1217

**Compatibility** Compatible with all cements. Exercise caution when using dispersants so that slurry separation does not occur.

**Handling/Storage** Store in a dry place. Dispose of as cement solid. FILLITE is irritating to the lungs and eyes. Wear dust mask and goggles. If contact with eyes occurs, flush thoroughly with water and apply a lubricating eye salve. Refer to Material Safety Data Sheet (MSDS) for handling and hazard data.

**Packaging** FILLITE is shipped in 50 lb bags.