



Sil-Cell Technical Data

TYPICAL PHYSICAL PROPERTIES OF SIL-CELL

CHEMICAL ANALYSIS

Silicon Dioxide.....	73%
Aluminum Oxide.....	17%
Potassium Oxide.....	5%
Sodium Oxide.....	3%
Calcium Oxide.....	1%
Plus Trace Elements	

GRADES	Sil-32	Sil-42	Sil-35	Sil-43
Oil Absorption ASTM-D-1483 gms. oil per 100 cc	30	36	38	40
Hygroscopic Moisture	0	0	0	0
Surface pH	7.0	7.0	7.0	7.0
Thermal Conductivity	0.36	0.40	0.41	0.43
Color	White	White	White	White
Dry Bulk Density, lb/cu. ft.	7.0	8.5	9.0	10.5
Average Particle Size, Microns	75	45	40	35
Effective Particle density, lb./cu. ft. (g/cm ³)	11.2(0.18)	15.6(0.25)	15.6(0.25)	18.7(0.30)
Particle Size Range, Microns	1-300	1-210	1-150	1-150
Fusion Point (F)	2300	2300	2300	2300

TYPICAL PHYSICAL PROPERTIES OF SIL-CELL

(U.S. Sieve) % Wt.	Sil-32	Sil-42	Sil-35	Sil-43
+ 50 Mesh	2	TRACE	0	0
- 50 +100	15	5	TRACE	TRACE
-100 +200	33	25	12	5
-200	50	70	88	95

When molding a product, the volume of the mold is the basic measurement; the bar chart shows the comparison in weight/volume.

SIL-CELL is used in rotation molding; cultured marble; thermo-set castings; syntactic foam; SMC and BMC compounds; auto body putty; sealants and adhesives; patching compounds; FRP spray and hand lay up; tub and shower enclosures; and, explosives.

SIL-CELL is available with a variety of proprietary coatings to enhance its performance.

MIXING PROCEDURE

The use of a low shear, folding type mixer is desirable to minimize particle breakage. When mixing **SIL-CELL**, it is important that it is thoroughly mixed and "wet out."

Technical data shown is considered accurate and reliable. However, there is no guarantee of results, and no formulation gives permission to violate any patent.