

# Provosil®

## Properties and Specifications

A premium PERLITE product by  
**REDCO II**

PRODUCT  
INFORMATION  
BULLETIN

**11B**

Typical Physical Properties		Typical Chemical Analysis	
Form and color	Fine White Granules	Silicon Dioxide (SiO <sub>2</sub> )	71 - 75%
Loose Density Range	2 to 20 lbs./cu. ft.	Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	12.5 - 18%
Apparent Density in Fluid	*5 to 25 lbs./cu. ft.	Potassium Oxide (K <sub>2</sub> O)	4.0 - 5.0%
pH	Essentially Neutral	Sodium Oxide (Na <sub>2</sub> O)	3.0 - 5.0%
Solubles, water	0.08%	Calcium Oxide (CaO)	0.5 - 2.5%
Fusion Point	2300° - 2400° F	Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.5 - 1.5%
Thermal Conductivity	*"k" factor: .12 - .45	Magnesium Oxide (MgO)	0.1 - 0.5%
Apparent Specific Gravity in Fluid	*0.1 - 0.4	Sulfur Trioxide	nil
Bulking in fluid	*0.8 - 3.6 lbs.Gal displaced		
*Specific Values Vary with loose density and/or type of fluid			

### Typical Specifications

Product Number	01	03	04	06	07	27	30	31	31-T	32
Nominal Mesh Range	Minus 200	6-100	6-30	16-200	16-200	16-200	8-100	8-100	16-50	16-100
Loose Density	7.0 - 10.0	5.0 - 7.0	5.0 - 7.0	2.0 - 4.0	4.0 - 5.0	6.0 - 8.0	7.5 - 9.5	5.5 - 8.0	5.5 - 9.0	6.0 - 8.0
Sieve Analysis % retained by Volume, Cumulative										
U.S. Sieve No.										
4	-	0 - 5	0 - 5	0 - 0	0 - 0	0 - 0	0 - 0	0-0	0-0	0-0
8	-	30 - 45	45 - 65	0 - 0	0 - 0	0 - 0	0 - 5	15-30	0-0	0-5
16	-	50 - 75	90 - 95	0 - 5	0 - 5	0 - 5	15 -35	55-80	45-85	10-30
30	-	75 - 90	95 - 100	29 - 39	29 - 39	8 - 18	48 - 70	80-95	85-100	48-70
50	-	85 - 95	97 - 100	58 - 68	58 - 68	50 - 65	78 - 90	85-95	98-100	78-88
100	0 - 5	88 - 96	99 - 100	70 - 90	70 - 90	70 - 90	90 - 100	90-100	98-100	90-100
200	0 - 10	-	-	-	-	-	-	-	-	-
325	5 - 25	-	-	-	-	-	-	-	-	-

Notes: All Provosil grades are packed in 4 of 5 cubic foot multi-wall paper bags. Some grades available in bulk. Silicone water-repellency treatment available on some grades at extra cost. Dust-inhibiting treatments also available on some grades at extra cost.

