



2023

Product Data Sheet
Plant: Blue Ridge

I. GEOLOGICAL FORMATION: Conococheague Limestone

II. CHEMICAL ANALYSIS (3/2023) :

| | | | | | | | |
|----------|----------|-------|--------------------------|--------|--------|----------|-------|
| Silica | as SiO2 | 11.4% | Calcium | as CaO | 39.70% | as CaCO3 | 54.0% |
| Iron | as Fe2O3 | 1.3% | Magnesium | as MgO | 6.94% | as MgCO3 | 31.0% |
| Aluminum | as Al2O3 | 2.6% | Calcium Carbonate Equiv. | | | CCE | 85.0% |
| Sulfur | as S | 0.3% | | | | | |

| III. QUALITY DATA: | | | Product | | | | | | | | | | | | |
|--------------------------------------|-----------|-------|---------|--------|--------|--------|-------------|-----------|--------|--------|--------|--------|--------|--------------|--------|
| TEST | TEST DATE | | 1 | 3 | 357 | 5 | Concrete 57 | Coarse 57 | 68 | 78 | 8/8P | 9 | A Sand | 10 Block Mix | LIME |
| * SPECIFIC GRAVITY * | | | | | | | | | | | | | | | |
| BULK (ASPHALT) | 2/23 | | 2.750 | 2.736 | 2.726 | 2.730 | 2.731 | 2.740 | 2.720 | 2.706 | 2.724 | 2.714 | 2.712 | 2.700 | 2.701 |
| BULK - SSD (CONCRETE) | 2/23 | | 2.764 | 2.753 | 2.741 | 2.745 | 2.748 | 2.752 | 2.739 | 2.726 | 2.746 | 2.742 | 2.740 | 2.731 | 2.717 |
| APPARENT | 2/23 | | 2.789 | 2.782 | 2.766 | 2.773 | 2.778 | 2.775 | 2.773 | 2.761 | 2.787 | 2.793 | 2.763 | 2.785 | 2.745 |
| % ABSORPTION | 2/23 | | 0.5% | 0.6% | 0.5% | 0.6% | 0.6% | 0.5% | 0.7% | 0.7% | 0.8% | 1.1% | 1.1% | 1.1% | 0.6% |
| * UNIT WEIGHT * | | | | | | | | | | | | | | | |
| DRY RODDED (LBS/CUBIC FT) | 2/23 | | 89.7 | 94.9 | 99.9 | 98.1 | 99.7 | 96.1 | 100.8 | 102.9 | 98.4 | 92.8 | 92.8 | 91.4 | 82.1 |
| DRY RODDED (LBS/CUBIC YARD) | 2/23 | | 2421.9 | 2562.3 | 2562.3 | 2648.7 | 2691.9 | 2594.7 | 2721.6 | 2778.3 | 2656.8 | 2505.6 | 2505.6 | 2467.8 | 2216.7 |
| DRY RODDED (% VOIDS) | 2/23 | | 47.7% | 44.4% | 41.3% | 42.4% | 41.5% | 43.8% | 40.6% | 39.1% | 42.1% | 45.2% | 45.2% | 45.7% | 51.3% |
| DRY RODDED (Kg/Cubic Meter) | 2/23 | | 1437 | 1520 | 1600 | 1571 | 1597 | 1539 | 1615 | 1648 | 1576 | 1487 | 1487 | 1464 | 1315 |
| VTM-5 % VOIDS IN STONE SAND | 2/23 | | | | | | | | | | | | 47.1% | 47.7% | |
| ASTM C1252 % VOIDS (METH B) | 2/23 | | | | | | | | | | | | 50.8% | 50.2% | |
| ASTM C1252 % VOIDS (METH C) | 2/23 | | | | | | | | | | | | 47.8% | 47.9% | |
| ASTM D4791 % F & E (3:1) | 2/23 | | | | | 9.2% | 6.4% | 11.4% | 10.6% | 8.6% | 11.4% | | | | |
| * LOS ANGELES DEGRADATION * | | | | | | | | | | | | | | | |
| GRADING A % LOSS | 2/23 | 17.7% | | | | | | | | | | | | | |
| GRADING B % LOSS | 2/23 | 16.0% | | | | | | | | | | | | | |
| GRADING C % LOSS | 2/23 | 14.7% | | | | | | | | | | | | | |
| SOUNDNESS % LOSS (Magnesium Sulfate) | 2/23 | | 0.5% | 0.5% | 0.5% | 0.8% | 1.2% | 1.0% | 1.4% | 1.3% | 1.3% | 7.6% | 7.0% | 6.9% | |
| SOUNDNESS % LOSS (Sodium Sulfate) | | | | | | | | | | | | | | | |
| * SUPERPAVE * | | | | | | | | | | | | | | | |
| ASTM C1252 % VOIDS (METH A) | 2/23 | | | | | | | | | | | | 47.7% | 47.2% | |
| AASHTO T 176 SAND EQUIVALENT | 2/23 | | | | | | | | | | | | 79 | 64 | |
| ASTM D4791 % F & E (5:1) | 2/23 | | | | | 1.3% | 0.2% | 1.0% | 1.1% | 1.9% | 1.6% | | | | |