

Pacific LDC - a Lightweight Ceramic

Specification and Properties

| Pacific LDC | | | | | |
|---------------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-----------------------|
| 20/40 | | 30/50 | | 40/70 | |
| Sieve Analysis | | | | | |
| Sieve | Wt. % Retained | Sieve | Wt. % Retained | Sieve | Wt. % Retained |
| +18 mesh | 0.00% | | | | |
| -18 + 20 mesh | 0.00% | | | | |
| -20 + 25 mesh | 10.20% | | | | |
| -25 + 30 mesh | 66.50% | -25 + 30 mesh | 0.00% | | |
| -30 + 40 mesh | 23.20% | -30 + 35 mesh | 1.00% | | |
| -40 mesh | 0.10% | -35 + 40 mesh | 47.20% | -35 + 40 mesh | 0.00% |
| | | -40 + 45 mesh | 49.60% | -40 + 45 mesh | 0.60% |
| | | -45 + 50 mesh | 2.10% | -45 + 50 mesh | 33.10% |
| | | -50 mesh | 0.00% | -50 + 60 mesh | 59.20% |
| | | | | -60 +70 mesh | 6.70% |
| | | | | -70 mesh | 0.30% |
| Median Particle Diameter | | | | | |
| 0.666 mm | | 0.521 mm | | 0.342 mm | |
| Crush Resistance | | | | | |
| Closure Stress | Fine % | Fine % | | Fine % | |
| 5000 | 0.6 | 0.3 | | | |
| 7500 | 3.4 | 1.4 | | 1 | |
| 10000 | 7.7 | 5.8 | | 4.5 | |
| Physical Properties | | | | | |
| Roundness | 0.9 | 0.9 | | 0.8 | |
| Sphericity | 0.8 | 0.8 | | 0.8 | |
| Bulk Density | 1.60 g/cm ³ | 1.6. g/cm ³ | | 1.6. g/cm ³ | |
| | 99.8 lb/ft ³ | 96.1 lb/ft ³ | | 94.8 lb/ft ³ | |
| Specific Gravity | 2.76 g/cm ³ | 2.76 g/cm ³ | | 2.76 g/cm ³ | |
| Acid Solubility | 5.3 % | 5.50% | | 5.40% | |

All Values above are typical

Long Term Conductivity and Permeability 20/40, 30/50 and 40/70 Pacific LDC

| Closure Stress (psi) | Conductivity (md/ft) | | | Permeability (darcies) | | |
|-------------------------|----------------------|-------|-------|------------------------|-------|-------|
| | 40/70 | 30/50 | 20/40 | 40/70 | 30/50 | 20/40 |
| 2000 | 1562 | 3999 | 7359 | 85 | 219 | 407 |
| 4000 | 1245 | 3400 | 5855 | 70 | 189 | 330 |
| 6000 | 1008 | 2734 | 4529 | 57 | 155 | 259 |
| 8000 | 901 | 1958 | 3148 | 52 | 114 | 184 |
| 10000 | 654 | 1404 | 2086 | 38 | 84 | 125 |

