### Технические характеристики

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Физико-механические показатели | 10/14' | 12/18' | 16/20' | 16/30' | 20/40' | 30/50' | 40/70' |
| насыпная плотность,  г\см3 | 1.70 | 1.73 | 1.74 | 1.73 | 1.72 | 1.69 | 1.80 |
| удельный вес, г\см3 | 3.04 | 3.10 | 3.14 | 3.19 | 3.18 | 3.13 | 3.23 |
| сферичность | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.9 | 0.9 |
| округлость | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 |
| средний размер, мм | 1.648 | 1.162 | 1.041 | 0.798 | 0.620 | 0.497 | 0.339 |
| растворимость в кислотах   HCl + HF, % | 5.7 | 5.6 | 5.7 | 5.7 | 5.9 | 5.8 | 4.9 |
| мутность, ЕМФ | 18 | 60 | 29 | 83 | 99 | 70 | 68 |
| **СОПРОТИВЛЕНИЕ РАЗДАВЛИВАНИЮ (ДОЛЯ РАЗРУШЕННЫХ ГРАНУЛ), %** | | | | | | | |
| при давлении 7500psi | 15.7 | 7.9 | 6.4 | 3.4 | 2.0 | 0.9 | 0.5 |
| при давлении 10 000psi | 22.0 | 11.8 | 9.1 | 6.2 | 4.6 | 2.4 | 1.3 |
| при давлении 12 500psi | 29.8 | 14.3 | 12.4 | 7.9 | 6.3 | 3.0 | 1.8 |
| при давлении 15 000psi | 40.5 | 20.5 | 16.4 | 10.8 | 10.0 | 4.9 | 2.3 |

### Проводимость, милли Дарси / Фут

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Давление, psi | 2000' | 4000' | 6000' | 8000' | 10000' | 12000' |
| 10/14' | 65 805 | 27 304 | 14 355 | 6 512 | 2 405 | 1 308 |
| 12/18' | 25 642 | 17 962 | 10 125 | 5 552 | 2 910 | 2 038 |
| 16/20' | 21 345 | 13 667 | 9 314 | 5 049 | 2 943 | 1 670 |
| 16/30' | 14 771 | 8 944 | 6 286 | 3 890 | 2 251 | 1 293 |
| 20/40' | 7 044 | 4 563 | 3 417 | 2 324 | 1 520 | 961 |
| 30/50' | 4 257 | 3 555 | 3 000 | 2 040 | 1 300 | 933 |
| 40/70' | 1 622 | 1 420 | 1 266 | 1 022 | 828 | 662 |

### Проницаемость, Дарси

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Давление, psi | 2000' | 4000' | 6000' | 8000' | 10000' | 12000' |
| 10/14' | 3 500 | 1 588 | 877 | 421 | 163 | 92.9 |
| 12/18' | 1 408 | 1 025 | 603 | 345 | 188 | 137 |
| 16/20' | 1 246 | 835 | 589 | 332 | 202 | 119 |
| 16/30' | 862 | 544 | 395 | 253 | 151 | 90.2 |
| 20/40' | 414 | 277 | 214 | 151 | 102 | 66.9 |
| 30/50' | 250 | 215 | 185 | 130 | 85.0 | 62.8 |
| 40/70' | 99.3 | 88.9 | 80.6 | 66.1 | 54.5 | 44.3 |

### ****Technical characteristics****

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Physical-mechanical characteristics | 10/14' | 12/18' | 16/20' | 16/30' | 20/40' | 30/50' | 40/70' |
| Bulk weight, g/ccm | 1.70 | 1.73 | 1.74 | 1.73 | 1.72 | 1.69 | 1.80 |
| Specific Gravity, g/ccm | 3.04 | 3.10 | 3.14 | 3.19 | 3.18 | 3.13 | 3.23 |
| Sphericity | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 0.9 | 0.9 |
| Roundness | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 |
| Mean Size, mm | 1.648 | 1.162 | 1.041 | 0.798 | 0.620 | 0.497 | 0.339 |
| Acid solubility HCI + HF, % | 5.7 | 5.6 | 5.7 | 5.7 | 5.9 | 5.8 | 4.9 |
| Turbidity, FTU | 18 | 60 | 29 | 83 | 99 | 70 | 68 |
| **CRUSH RESISTANCE (SHARE OF RUINOUS GRANULES), %** | | | | | | | |
| At 7500psi | 15.7 | 7.9 | 6.4 | 3.4 | 2.0 | 0.9 | 0.5 |
| At 10 000psi | 22.0 | 11.8 | 9.1 | 6.2 | 4.6 | 2.4 | 1.3 |
| At 12 500psi | 29.8 | 14.3 | 12.4 | 7.9 | 6.3 | 3.0 | 1.8 |
| At 15 000psi | 40.5 | 20.5 | 16.4 | 10.8 | 10.0 | 4.9 | 2.3 |

### CONDUCTIVITY, MD / FT

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pressure, psi | 2000' | 4000' | 6000' | 8000' | 10000' | 12000' |
| 10/14' | 65 805 | 27 304 | 14 355 | 6 512 | 2 405 | 1 308 |
| 12/18' | 25 642 | 17 962 | 10 125 | 5 552 | 2 910 | 2 038 |
| 16/20' | 21 345 | 13 667 | 9 314 | 5 049 | 2 943 | 1 670 |
| 16/30' | 14 771 | 8 944 | 6 286 | 3 890 | 2 251 | 1 293 |
| 20/40' | 7 044 | 4 563 | 3 417 | 2 324 | 1 520 | 961 |
| 30/50' | 4 257 | 3 555 | 3 000 | 2 040 | 1 300 | 933 |
| 40/70' | 1 622 | 1 420 | 1 266 | 1 022 | 828 | 662 |

### PERMEABILITY, DARCY

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pressure, psi | 2000' | 4000' | 6000' | 8000' | 10000' | 12000' |
| 10/14' | 3 500 | 1 588 | 877 | 421 | 163 | 92.9 |
| 12/18' | 1 408 | 1 025 | 603 | 345 | 188 | 137 |
| 16/20' | 1 246 | 835 | 589 | 332 | 202 | 119 |
| 16/30' | 862 | 544 | 395 | 253 | 151 | 90.2 |
| 20/40' | 414 | 277 | 214 | 151 | 102 | 66.9 |
| 30/50' | 250 | 215 | 185 | 130 | 85.0 | 62.8 |
| 40/70' | 99.3 | 88.9 | 80.6 | 66.1 | 54.5 | 44.3 |