

FILTRATION MEDIA



FILTRATION SAND & GRAVEL

SWT sand and gravel are manufactured with precise effective size ranges and the lowest uniformity coefficients in the industry.

SWT Silica Sand is graded specifically for use in water and waste water filtration processes. Our sand can be used in municipal, industrial, or residential applications. The low acid solubility and high silica content of our filter sand ensures durable and long lasting filter media performance.

SWT Gravel is manufactured to be uniform in size which promotes excellent flow and even distribution in support beds. Our gravel is low in soluble impurities and maintains its quality as a support bed for the filter media.

Meets or exceeds all ASI, AWWA, or ASME standards and protocols. UL Certified to NSF/ANSI Standards 61 & 372.

Filter Sand Properties

| | |
|-------------------------|--------------------------|
| Color | Light brown |
| Form | Sub-angular/sub-round |
| Bulk Density | ~100 lbs. per cubic foot |
| Hardness | 6.0 to 7.0 (Mohs scale) |
| Effective Size Range | 0.2-0.3mm to 2.0-3.0mm |
| Uniformity Coefficient | 1.3 to 1.7 maximum |
| Acid Solubility | <1.0% |
| Specific Gravity | >2.6 |
| Silicon Dioxide Content | >85% |
| Loss on Ignition | <2.0% |
| Source of Material | USA |

Support Gravel Properties

| | |
|------------------------|---------------------------------|
| Color | Assorted |
| Form | Uncrushed, smooth surface |
| Bulk Density | ~100 lbs. per cubic foot |
| Hardness | 7.0 to 8.0 (Mohs scale) |
| Effective Size Range | 1/8" x 1/16" to 2 1/2" x 1 1/2" |
| Porosity | 38% - 45% |
| Acid Solubility | <1.0% |
| Specific Gravity | >2.6 |
| Deleterious Material | < 1.0% |
| Thin, Flat & Elongated | <2.0% |
| Source of Material | USA |

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Filter Sand

| PRODUCT EFFECTIVE SIZE (mm) | | 2.00-3.00 | 1.65-2.00 | 1.20-1.60 | 0.80-1.20 | 0.65-0.75 | 0.60-0.65 | 0.45-0.55 | 0.35-0.45 | 0.20-0.30 |
|-----------------------------|-------|---------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| US Mesh | mm | Percent Passing (%) | | | | | | | | |
| 4 | 4.75 | 99 | | | | | | | | |
| 5 | 4.00 | 89 | 99 | | | | | | | |
| 6 | 3.35 | 57 | 94 | 99 | | | | | | |
| 7 | 2.80 | 27 | 78 | 96 | | | | | | |
| 8 | 2.36 | 10 | 57 | 90 | | | | | | |
| 10 | 2.00 | 3 | 29 | 73 | 99 | | | | | |
| 12 | 1.70 | 1 | 6 | 50 | 98 | 99 | | | | |
| 14 | 1.40 | | 1 | 15 | 77 | 97 | | | | |
| 16 | 1.18 | | | 3 | 51 | 87 | 99 | 99 | | |
| 18 | 1.00 | | | 1 | 20 | 64 | 88 | 94 | | |
| 20 | 0.850 | | | | 5 | 41 | 65 | 82 | 98 | |
| 25 | 0.710 | | | | 1 | 11 | 32 | 58 | 84 | |
| 30 | 0.600 | | | | | 3 | 7 | 33 | 59 | 98 |
| 35 | 0.500 | | | | | 1 | 2 | 10 | 28 | 93 |
| 40 | 0.425 | | | | | | 1 | 2 | 8 | 72 |
| 45 | 0.355 | | | | | | | 1 | 2 | 42 |
| 50 | 0.300 | | | | | | | | | 24 |
| 60 | 0.250 | | | | | | | | | 10 |
| 70 | 0.212 | | | | | | | | | 5 |
| 80 | 0.180 | | | | | | | | | 2 |

Support Gravel

| PRODUCT SIZE (INCHES) | | | 2½ x 1½ | 1½ x ¾ | ¾ x 1/2 | 5/8 x 3/8 | 1/2 x 1/4 | 3/8 x 3/16 | 1/4 x 1/8 | 3/16 x 3/32 | 1/8 x 1/16 |
|-----------------------|--------|-------|---------------------|--------|---------|-----------|-----------|------------|-----------|-------------|------------|
| US Mesh | inches | mm | Percent Passing (%) | | | | | | | | |
| 2½" | 2.500 | 63.00 | 98 | | | | | | | | |
| 2.0" | 2.000 | 50.00 | 35 | | | | | | | | |
| 1 ½" | 1.500 | 37.50 | 5 | 98 | | | | | | | |
| 1.0" | 1.000 | 25.00 | 1 | 40 | | | | | | | |
| 7/8" | 0.875 | 22.40 | | 18 | | | | | | | |
| 3/4" | 0.750 | 19.00 | | 4 | 97 | | | | | | |
| 5/8" | 0.625 | 16.00 | | | 48 | 99 | | | | | |
| 1/2" | 0.500 | 12.50 | | | 3 | 77 | 98 | | | | |
| 3/8" | 0.375 | 9.50 | | | | 3 | 41 | 98 | | | |
| 1/4" | 0.250 | 6.30 | | | | 1 | 4 | 30 | 96 | | |
| 4 | 0.187 | 4.75 | | | | | | 4 | 66 | 98 | |
| 5 | 0.157 | 4.00 | | | | | | | 35 | 84 | |
| 6 | 0.132 | 3.35 | | | | | | | 11 | 45 | 97 |
| 1/8" | 0.125 | 3.18 | | | | | | | 5 | 14 | 94 |
| 7 | 0.111 | 2.80 | | | | | | | 1 | 3 | 80 |
| 8 | 0.094 | 2.36 | | | | | | | | 1 | 60 |
| 10 | 0.079 | 2.00 | | | | | | | | | 30 |
| 12 | 0.066 | 1.70 | | | | | | | | | 6 |
| 14 | 0.056 | 1.40 | | | | | | | | | 1 |