

Saint-Gobain Performance Plastics
Sani-Tech Conversion Charts: Volume and Weight; Head and Pressure; Flow

Volume & Weight Conversions

| CONVERT FROM | CONVERT TO | | | | | | | | |
|------------------------|--------------|------------------|--------------|------------|--------|--------------|--------------------------------|-----------------------------------|-----------------------------------|
| | U.S. GALLONS | IMPERIAL GALLONS | CUBIC INCHES | CUBIC FEET | LITERS | CUBIC METERS | POUNDS (H ₂ O@68°F) | U.S. TONS (H ₂ O@68°F) | KILOGRAMS (H ₂ O@68°F) |
| U.S. GALLONS | 1.000 | 0.833 | 231 | 0.134 | 3.785 | 0.00379 | 8.338 | 0.00417 | 3.782 |
| IMPERIAL GALLONS | 1.200 | 1.000 | 277 | 0.161 | 4.546 | 0.00455 | 10.01 | 0.005 | 4.542 |
| CUBIC INCHES | 0.00433 | 0.00361 | 1.000 | 0.000579 | 0.0164 | 0.0000164 | 0.0361 | 55409 | 0.0164 |
| CUBIC FEET | 7.481 | 6.229 | 1728 | 1.000 | 28.32 | 0.0283 | 62.37 | 0.0312 | 28.29 |
| LITERS | 0.264 | 0.220 | 61.02 | 0.0353 | 1.000 | 0.001 | 2.203 | 0.0011 | 0.1000 |
| CUBIC METERS | 264 | 220 | 61024 | 35.32 | 1000 | 1.000 | 2203 | 1.101 | 1000 |
| POUNDS (WATER@68°F) | 0.120 | 0.0999 | 27.71 | 0.016 | 0.454 | 0.000454 | 1.000 | 0.0005 | 0.454 |
| U.S. TONS (WATER@68°F) | 240 | 200 | 55409 | 32.07 | 908 | 0.908 | 2000 | 1.000 | 907 |
| KILOGRAMS (WATER@68°F) | 0.264 | 0.220 | 61.08 | 0.0353 | 1.000 | 0.001 | 2.205 | 0.0011 | 1.000 |

Example: 2 Kilograms X 2.205 = 4.41 Pounds

Head & Pressure Conversion

| CONVERT FROM | CONVERT TO | | | | | | | | | | |
|--------------------|--------------------|--------------------|-----------|--------------------|-------------------|-----------------|---------------|-------------------|----------------|----------|-----------|
| | lb/in ² | lb/ft ² | Atm | kg/cm ² | kg/m ² | INCHES OF WATER | FEET OF WATER | INCHES OF MERCURY | mm. OF MERCURY | BARS | MPa |
| lb/in ² | 1.000 | 144 | 0.0680 | 0.0703 | 703 | 27.73 | 2.311 | 2.036 | 51.72 | 0.0690 | 0.00690 |
| lb/ft ² | 0.0007 | 1.000 | 0.000473 | 0.000488 | 4.882 | 0.193 | 0.0161 | 0.0141 | 0.359 | 0.000479 | 0.0000479 |
| Atm | 14.70 | 2116 | 1.000 | 1.033 | 10332 | 407 | 33.96 | 29.92 | 760 | 1.013 | 0.101 |
| kg/cm ² | 14.22 | 2048 | 0.968 | 1.000 | 10000 | 394 | 32.87 | 28.96 | 736 | 0.981 | 0.0981 |
| kg/m ² | 0.00142 | 0.205 | 0.0000968 | 0.0001 | 1.000 | 0.0394 | 0.00329 | 0.00290 | 0.0736 | 0.000098 | 0.0000098 |
| INCHES OF WATER | 0.0361 | 5.197 | 0.00245 | 0.00253 | 25.38 | 1.000 | 0.0833 | 0.0734 | 1.865 | 0.00249 | 0.000249 |
| FEET OF WATER | 0.433 | 62.32 | 0.0294 | 0.0304 | 304 | 12.00 | 1.000 | 0.8811 | 2.38 | 0.0298 | 0.00298 |
| INCHES OF MERCURY | 0.491 | 70.73 | 0.0334 | 0.0345 | 345 | 13.62 | 1.135 | 1.000 | 25.40 | 0.0339 | 0.00339 |
| mm. OF MERCURY | 0.0193 | 2.785 | 0.00132 | 0.00136 | 13.60 | 0.536 | 0.0447 | 0.0394 | 1.000 | 0.00133 | 0.000133 |
| BARS | 14.50 | 2088 | 0.987 | 1.020 | 10197 | 402 | 33.51 | 29.53 | 750 | 1.000 | 0.1000 |
| MPa | 145 | 20886 | 9.869 | 10.20 | 101972 | 4022 | 335 | 295 | 7501 | 10.00 | 1.000 |

Example: 2 lb / in X 27.73 = 55.46 inches of water

Flow Conversions

| CONVERT FROM | CONVERT TO | | | | | | | | |
|------------------------|------------|--------------|------------------|--------------------|--------------------|----------------------|---------------------|--------|-------|
| | U.S. gpm | IMPERIAL gpm | MILLION U.S. gpd | ft ³ /s | mt ³ /s | mt ³ /min | mt ³ /hr | lps | lpm |
| U.S. gpm | 1.000 | 0.833 | 0.00144 | 0.00223 | 0.0000631 | 0.00379 | 0.227 | 0.0631 | 3.786 |
| IMPERIAL gpm | 1.201 | 1.000 | 0.00173 | 0.00268 | 0.0000758 | 0.00454 | 0.273 | 0.0758 | 4.548 |
| MILLION US GALLONS/DAY | 694 | 578 | 1.000 | 1.547 | 0.0438 | 2.628 | 158 | 43.80 | 2628 |
| ft ³ /s | 449 | 374 | 0.646 | 1.000 | 0.0283 | 1.698 | 102 | 28.32 | 1699 |
| m ³ /s | 15852 | 13200 | 22.83 | 35.35 | 1.000 | 60.00 | 3600 | 1000 | 60000 |
| m ³ /min | 264 | 220 | 0.380 | 0.589 | 0.0167 | 1.002 | 60.00 | 16.67 | 1000 |
| m ³ /hr | 4.403 | 3.760 | 0.00634 | 0.00982 | 0.0000116 | 0.000696 | 1.000 | 0.278 | 16.68 |
| lps | 15.85 | 13.20 | 0.0228 | 0.0353 | 0.00100 | 0.0600 | 3.600 | 1.000 | 60.00 |
| lpm | 0.264 | 0.220 | 0.000380 | 0.000589 | 0.0000167 | 0.00100 | 0.0600 | 0.0167 | 1.000 |

Example: 2 Kilograms X 2.205 = 4.41 Pounds