| Unidades de Comprimento (principais) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| → ↑ | Km | hm | dam | m | fm | cm | mm | yd | ft | in | Observações |
| Km | 1 | 10 | $10^{2}$ | $10^{3}$ | $10^{4}$ | $10^{5}$ | $10^{6}$ | 1093,6 | 3281 | 39370 | quilômetro |
| hm | $10^{-1}$ | 1 | 10 | $10^{2}$ | $10^{3}$ | $10^{4}$ | $10^{5}$ | 109,4 | 328 | 3937 | hectômetro |
| dam | $10^{-2}$ | $10^{-1}$ | 1 | 10 | $10^{2}$ | $10^{3}$ | $10^{4}$ | 10,94 | 32,8 | 393,7 | decâmetro |
| m | $10^{-3}$ | $10^{-2}$ | $10^{-1}$ | 1 | 10 | $10^{2}$ | $10^{3}$ | 1,094 | 3,28 | 39,37 | metro |
| dm | $10^{-4}$ | $10^{-3}$ | $10^{-2}$ | $10^{-1}$ | 1 | 10 | $10^{2}$ | 0,109 | 0,328 | 3,94 | decímetro |
| cm | $10^{-5}$ | $10^{-4}$ | $10^{-3}$ | $10^{-2}$ | $10^{-1}$ | 1 | 10 | $1,09x10^{-2}$ | $3,28x10^{-2}$ | 0,394 | centímetro |
| mm | $10^{-6}$ | $10^{-5}$ | $10^{-4}$ | $10^{-3}$ | $10^{-2}$ | $10^{-1}$ | 1 | $1,09x10^{-3}$ | $3,28x10^{-3}$ | $0,39x10^{-1}$ | milímetro |
| yd | $9x10^{-7}$ | $9x10^{-6}$ | $9x10^{-5}$ | 0,9144 | 9,144 | 91,44 | 914,4 | 1 | 3 | 36 | jarda |
| ft | $3x10^{-7}$ | $3x10^{-6}$ | $3x10^{-5}$ | 0,3048 | 3,048 | 30,48 | 304,8 | 0,333 | 1 | 12 | pé |
| in | $2,5x10^{-5}$ | $2,5x10^{-4}$ | $2,5x10^{-3}$ | $2,54x10^{-2}$ | 0,254 | 2,54 | 25,4 | 0,278 | $8,3x10^{-2}$ | 1 | polegada |

Notas: 1 Milha marítima = 1,852 Km
1 Milha terrestre = 1,609 Km

| Massa | | | | | | | |
|---|---|---|---|---|---|---|---|
| → ↑ | Kg | g | utm | lb | oz | slug | Observações |
| Kg | 1 | $10^{3}$ | 0,102 | 2,205 | 35,28 | $6,85x10^{-2}$ | quilograma |
| g | $10^{-3}$ | 1 | $1,02x10^{-4}$ | $2,2x10^{-3}$ | $35,3x10^{-3}$ | $6,85x10^{-5}$ | grama |
| utm | 9,80665 | 9806,65 | 1 | 21,62 | 346 | 0,67 | Unidade Técnica de Massa |
| lb | 0,4535 | 453,5 | $4,62x10^{-2}$ | 1 | 16 | $3,1x10^{-2}$ | libra-massa |
| oz | $2,83x10^{-2}$ | 28,3 | $2,9x10^{-3}$ | $6,25x10^{-2}$ | 1 | $1,9x10^{-3}$ | onça |
| slug | 14,59 | 14589 | 1,49 | 32,17 | 514,7 | 1 | - |

| Velocidades | | | | | |
|---|---|---|---|---|---|
| → ↑ | Km/h | m/s | nó | ft/s | Observações |
| Km/h | 1 | 0,28 | 0,54 | 0,91 | quilômetro/hora |
| m/s | 3,6 | 1 | 1,94 | 3,28 | metro/segundo |
| nó | 1,852 | 0,51 | 1 | 1,59 | milha marítima/hora |
| ft/s | 1,1 | 0,3048 | 0,59 | 1 | pé/segundo |

| Massa Específica (densidade absoluta) | | | |
|---|---|---|---|
| → ↑ | $Kg/m^3$ | $g/cm^3$ | $lb/ft^3$ |
| $Kg/m^3$ | 1 | $10^{-3}$ | $6{,}25 \times 10^{-2}$ |
| $g/cm^3$ | $10^3$ | 1 | 62,5 |
| $lb/ft^3$ | 16 | $16 \times 10^{-2}$ | 1 |

| Volume Específico | | | | |
|---|---|---|---|---|
| → ↑ | $m^3/Kg$ | $dm^3/Kg$ | $ft^3/lb$ | Observações |
| $m^3/Kg$ | 1 | $10^3$ | 16 | - |
| $dm^3/Kg$ | $10^{-3}$ | 1 | $1,6x10^{-2}$ | $\ell/Kg = cm^3/g$ |
| $ft^3/lb$ | $6,2x10^{-2}$ | 62,4 | 1 | - |

| Força | | | | | | |
|---|---|---|---|---|---|---|
| → ↑ | dina | N | Kgf | Pdl | lbf | Observações |
| dina | 1 | $10^{-5}$ | $0{,}102 \times 10^{-5}$ | $7{,}23 \times 10^{-5}$ | $2{,}3 \times 10^{-6}$ | dina |
| N | $10^{5}$ | 1 | 0,102 | 7,23 | 0,225 | Newton |
| Kgf | 980665 | 9,80665 | 1 | 70,95 | 2,205 | quilograma-força |
| Pdl | 13823 | 0,138 | $1{,}4 \times 10^{-2}$ | 1 | $3{,}1 \times 10^{-2}$ | Poundal |
| lbf | $4{,}45 \times 10^{5}$ | 4,45 | 0,453 | 32,17 | 1 | libra-força |

| Pressão | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| → ↑ | Pa | atm | bar | ba | kgf/m² | at | lbt/ft² | psi | Torr | in Hg |
| Pa | 1 | $9,869x10^{-6}$ | $10^{-5}$ | 10 | $10,2x10^{-2}$ | $10,2x10^{-6}$ | $20,9x10^{-3}$ | $1,45x10^{-4}$ | $7,5x10^{-3}$ | $2,95x10^{-4}$ |
| atm | 101325,0 | 1 | 1,01325 | $1,01325x10^{6}$ | $10,332x10^{3}$ | 1,033 | 2116 | 14,6959 | 760 | 29,92 |
| bar | $10^{5}$ | $9,869x10^{-1}$ | 1 | $10^{6}$ | $10,197x10^{3}$ | 1,02 | 2088,5 | 14,5 | 750 | 29,53 |
| ba | $10^{-1}$ | $9,569x10^{-7}$ | $10^{-6}$ | 1 | $10,2x10^{-3}$ | $10,2x10^{-7}$ | $2088,5x10^{-6}$ | $14,5x10^{-6}$ | $7,5x10^{-4}$ | $29,5x10^{-6}$ |
| kgf/m² | 9,80665 | $9,6784x10^{-5}$ | $9,8x10^{-5}$ | 98 | 1 | $10^{-4}$ | $20,5x10^{-2}$ | $14,2x10^{-4}$ | $735x10^{-4}$ | $28,9x10^{-4}$ |
| at | 98066,5 | $9,6784x10^{-1}$ | $9,8x10^{-1}$ | $98,0x10^{5}$ | $10^{4}$ | 1 | 2048 | 14,2 | 735,56 | 28,958 |
| lbt/ft² | 47,88 | $47,264x10^{-5}$ | $4,79x10^{-4}$ | 478,8 | 4,88 | $4,9x10^{-4}$ | 1 | $69,4x10^{-4}$ | $35,9x10^{-4}$ | $14x10^{-3}$ |
| psi | 6894,8 | $6,80x10^{-2}$ | $68,95x10^{-3}$ | $68,948x10^{3}$ | 703 | $703x10^{-4}$ | 144 | 1 | 51,7 | 2,04 |
| Torr | 133,3 | $13,16x10^{-4}$ | $133,3x10^{-5}$ | 1333 | 13,595 | $13,6x10^{-4}$ | 2,78 | $19,3x10^{-3}$ | 1 | $39,4x10^{-3}$ |
| in Hg | 3386,5 | $3,34x10^{-2}$ | $33,9x10^{-3}$ | 33865 | 345,3 | $345x10^{-4}$ | 70,73 | $49x10^{-2}$ | 25,4 | 1 |

| Energia e Trabalho | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| → ↑ | J | Kj | atm.ℓ | cal | kcal | kgf.m | btu | lbf.ft | kw-h | cv-h | hph | Observações | |
| J | 1 | $10^{-3}$ | $98,7x10^{-4}$ | $238,8x10^{-5}$ | $23,9x10^{-5}$ | $10,2x10^{-2}$ | $94,8x10^{-5}$ | $737,5x10^{-3}$ | $2,78x10^{-7}$ | $3,78x10^{-7}$ | $3,7x10^{-7}$ | Joule | Pascal |
| Kj | $10^{3}$ | 1 | $98,7x10^{-1}$ | 238,85 | $23,9x10^{-2}$ | 101,97 | $94,8x10^{-2}$ | 737,5 | $2,78x10^{-4}$ | $3,78x10^{-4}$ | $3,7x10^{-4}$ | quilojoule | Atmosfera física ou normal |
| atm.ℓ | 101,325 | $101,3x10^{-3}$ | 1 | 24,2 | $24,2x10^{-3}$ | 10,33 | $96x10^{-3}$ | 74,73 | $28x10^{-6}$ | $38,3x10^{-6}$ | $38x10^{-6}$ | | bar |
| cal | 4,1868 | $4,19x10^{-3}$ | $4,13x10^{-2}$ | 1 | $10^{-3}$ | $426,9x10^{-3}$ | $39,7x10^{-4}$ | 3,09 | $1,16x10^{-6}$ | $1,6x10^{-6}$ | $1,56x10^{-6}$ | caloria | Bária |
| kcal | $4,1868x10^{3}$ | 4,1868 | 41,32 | $10^{3}$ | 1 | 426,9 | 3,97 | $3,09x10^{3}$ | $1,16x10^{-3}$ | $1,6x10^{-3}$ | $1,56x10^{-3}$ | quilocaloria | |
| kgf.m | 9,80665 | $9,8x10^{-3}$ | $96,8x10^{-3}$ | 2,34 | $2,3x10^{-3}$ | 1 | $93x10^{-4}$ | 7,2 | $2,7x10^{-6}$ | $3,7x10^{-6}$ | $3,65x10^{-6}$ | | Atmosfera técnica=1 Kgf/cm² |
| btu | 1055 | $1055x10^{-3}$ | 10,413 | 252 | 0,252 | 107,59 | 1 | 778,165 | $2,93x10^{-4}$ | $4x10^{-4}$ | $3,9x10^{-4}$ | Unidade Térmica Britânica | |
| lbf.ft | 1,356 | $1,36x10^{-3}$ | $1,3x10^{-2}$ | 0,324 | $3,2x10^{-4}$ | $138,3x10^{-3}$ | $12,9x10^{-4}$ | 1 | $3,8x10^{-7}$ | $5x10^{-7}$ | $5x10^{-7}$ | | libra por polegada ao quadrado |
| kw-h | $3,6x10^{6}$ | $3,6x10^{3}$ | 35529 | 859845 | 859,85 | 367098 | 3412 | $2,655x10^{6}$ | 1 | 1,36 | 1,34 | | Torricelli = mm Hg |
| cv-h | $2,648x10^{6}$ | $2,648x10^{3}$ | 26132 | 632415 | 632,4 | $2,7x10^{5}$ | 2510 | $1,953x10^{6}$ | 0,7355 | 1 | 0,9868 | | polegada de mercúrio |
| hph | $2,683x10^{6}$ | $2,683x10^{6}$ | 26480 | 640847 | 640,85 | $2,736x10^{5}$ | 2543 | $1,979x10^{6}$ | 0,7453 | 1,013 | 1 | | centímetro de mercúrio |

| Potência | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| → ↑ | W = J/S | KW = KJ/S | cv | hp | KJ/h | KJ/min | Kcal/h | Kcal/min | Kcal/s |
| W = J/S | 1 | $10^{-3}$ | $1,36x10^{-3}$ | $1,34x10^{-3}$ | 3,6 | 0,06 | 0,8598 | $1,43x10^{-2}$ | $2,39x10^{-4}$ |
| KW = KJ/S | $10^{5}$ | 1 | 1,36 | 1,34 | $3,6x10^{5}$ | 60 | 859,8 | 14,33 | 0,239 |
| cv | 735,5 | 0,736 | 1 | 0,9868 | 2647,8 | 44,13 | 632,41 | 10,54 | 0,1757 |
| hp | 745,3 | 0,745 | 1,013 | 1 | 2683 | 44,72 | 640,8 | 10,68 | 0,178 |
| KJ/h | 0,278 | $2,78x10^{-4}$ | 3,78x10-4 | 3,73x10-4 | 1 | $1,7x10^{-2}$ | 0,239 | $3,98x10^{-3}$ | $6,64x10^{-5}$ |
| KJ/min | 16,67 | $1,67x10^{-2}$ | $2,27x10^{-2}$ | $2,24x10^{-2}$ | 60 | 1 | 14,33 | 0,239 | $3,98x10^{-3}$ |
| Kcal/h | 1,163 | $1,163x10^{-3}$ | $1,58x10^{-3}$ | $1,56x10^{-3}$ | 4,187 | $6,97x10^{-2}$ | 1 | $1,67x10^{-2}$ | $2,78x10^{-4}$ |
| Kcal/min | 69,78 | $6,9x10^{-2}$ | $9,49x10^{-2}$ | 9,36x10-² | 251,2 | 4,187 | 60 | 1 | $1,67x10^{-2}$ |
| Kcal/s | 4186,8 | 4,186 | 5,69 | 5,618 | 15072 | 251,2 | 3600 | 60 | 1 |
| Kgf.m/h | $2,7x10^{-3}$ | $2,7x10^{-6}$ | $3,7x10^{-6}$ | $3,65x10^{-6}$ | $9,80665x10^{-3}$ | $1,63x10^{-4}$ | $2,34x10^{-3}$ | $3,9x10^{-5}$ | $6,5x10^{-7}$ |
| Kgf.m/min | 0,1634 | $1,63x10^{-4}$ | $2,22x10^{-4}$ | $2,193x10^{-4}$ | 0,5854 | $9,80665x10^{-3}$ | 0,141 | $2,34x10^{-3}$ | $3,90x10^{-5}$ |
| Kgf.m/s | 9,80665 | $9,8x10^{-3}$ | $1,33x10^{-2}$ | $1,316x10^{-2}$ | 35,3 | 0,5884 | 8,432 | 0,141 | $2,34x10^{-3}$ |
| Btu/h | 0,293 | $2,93x10^{-4}$ | $3,98x10^{-4}$ | $3,93x10^{-4}$ | 1,055 | $1,76x10^{-2}$ | 0,252 | $4,2x10^{-3}$ | $7x10^{-5}$ |
| Btu/min | 17,58 | $1,76x10^{-2}$ | $2,39x10^{-2}$ | $2,36x10^{-2}$ | 63,3 | 1,055 | 15,12 | 0,252 | $4,2x10^{-3}$ |

| Potência | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| → ↑ | W = $\frac{J}{S}$ | KW = $\frac{KJ}{S}$ | cv | hp | KJ/h | KJ/min | Kcal/h | Kcal/min | Kcal/s |
| Btu/s | 1055 | 1,055 | 1,435 | 1,416 | 3798,3 | 63,3 | 907,2 | 15,12 | 0,252 |
| lbf.ft/h | $3,77x10^{-4}$ | $3,77x10^{-7}$ | $5,12x10^{-7}$ | $5,05x10^{-7}$ | $1,36x10^{-3}$ | $2,26x10^{-5}$ | $3,24x10^{-4}$ | $5,4x10^{-6}$ | $9x10^{-8}$ |
| lbf.ft/min | $22,6x10^{-3}$ | $2,26x10^{-5}$ | $3,07x10^{-5}$ | $3,03x10^{-5}$ | $8,14x10^{-3}$ | $1,36x10^{-3}$ | $1,94x10^{-2}$ | $3,24x10^{-4}$ | $5,4x10^{-6}$ |
| lbf.ft/s | 1,356 | 1,355x10-3 | $1,84x10^{-3}$ | $1,1818x10^{-3}$ | 4,88 | $8,14x10^{-2}$ | 1,166 | $1,94x10^{-2}$ | $3,24x10^{-2}$ |

| Potência | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| → ↑ | Kgf.m/h | Kgf.m/min. | Kgf.m/s | Btu/h | Btu/min | Btu/s | lbf.ft/h | lbft.ft/min | lbft.ft/s |
| $W = \frac{J}{S}$ | 367,1 | 6,12 | 0,102 | 3,412 | $5,68x10^{-2}$ | $9,48x10^{-4}$ | 2655 | 44,25 | 0,7375 |
| $KW = \frac{KJ}{S}$ | $3,671x10^{5}$ | 6118 | 101,97 | 3412 | 56,8 | 0,948 | $2,655x10^{5}$ | $4,425x10^{4}$ | 737,5 |
| cv | $2,7x10^{5}$ | 4500 | 75 | 2509,6 | 41,83 | 0,697 | $1,953x10^{6}$ | $3,255x10^{4}$ | 542,5 |
| hp | $2,736x10^{5}$ | 4560 | 76 | 2543 | 42,38 | 0,706 | $1,98x10^{6}$ | $2,398x10^{4}$ | 549,7 |
| KJ/h | 101,97 | 1,6995 | $2,833x10^{-2}$ | 0,9478 | $1,58x10^{-2}$ | $2,63x10^{-4}$ | 737,53 | 12,29 | 0,205 |
| KJ/min | 6118,3 | 101,97 | 1,6995 | 56,87 | 0,9478 | $1,58x10^{-2}$ | $4,425x10^{4}$ | 737,5 | 12,29 |
| Kcal/h | 426,93 | 7,116 | 0,1186 | 3,968 | $6,61x10^{-2}$ | $1,102x10^{-3}$ | 3088 | 51,5 | 0,858 |
| Kcal/min | $2,562x10^{4}$ | 426,9 | 7,12 | 238,1 | 3,968 | $6,61x10^{-2}$ | $1,852x10^{5}$ | 3088 | 51,5 |
| Kcal/s | $1,537x10^{6}$ | $2,562x10^{4}$ | 426,9 | $1,428x10^{4}$ | 238,09 | 3,968 | $1,112x10^{7}$ | $1,852x10^{5}$ | 3088 |
| Kgf.m/h | 1 | $1,67x10^{-2}$ | $2,78x10^{-4}$ | $9,3x10^{-3}$ | $1,5x10^{-4}$ | $2,58x10^{-6}$ | 7,23 | 0,12 | $2x10^{-3}$ |
| Kgf.m/min | 60 | 1 | $1,67x10^{-2}$ | 0,558 | $9,3x10^{-3}$ | $1,55x10^{-4}$ | 434 | 7,23 | 0,12 |
| Kgf.m/s | 3600 | 60 | 1 | 33,46 | 0,5577 | $9,3x10^{-3}$ | 26038 | 434 | 7,23 |
| Btu/h | 107,6 | 1,793 | $3x10^{-2}$ | 1 | $1,67x10^{-2}$ | $2,78x10^{-4}$ | 778,15 | 12,97 | 0,216 |
| Btu/min | 6455,3 | 107,6 | 1,793 | 60 | 1 | $1,67x10^{-2}$ | 46689 | 778,15 | 12,97 |

| Potência | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| → ↑ | Kgf.m/h | Kgf.m/min. | Kgf.m/s | Btu/h | Btu/min | Btu/s | lbf.ft/h | lbft.ft/min | lbft.ft/s |
| Btu/s | $3,873x10^{5}$ | 6455,3 | 107,6 | 3600 | 60 | 1 | $2,8x10^{-6}$ | 46689 | 778,15 |
| lbf.ft/h | 0,138 | $2,3x10^{-3}$ | $3,8x10^{-5}$ | $1,3x10^{-3}$ | $2,14x10^{-5}$ | $3,57x10^{-7}$ | 1 | $1,67x10^{-2}$ | $2,78x10^{-4}$ |
| lbf.ft/min | 8,296 | 0,138 | $2,3x10^{-3}$ | $7,7x10^{-2}$ | $1,3x10^{-3}$ | $2,1x10^{-5}$ | 60 | 1 | $1,67x10^{-2}$ |

| Energia Específica | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| → ↑ | J/Kg | Kj/Kg | cal/g | Kcal/Kg | Kgf.m/Kg | at.m³/Kg | Btu/lb | lbf.ft/lb | psi.ft³/lb |
| J/Kg | 1 | $10^{-3}$ | $2,4x10^{-4}$ | $2,4x10^{-4}$ | 0,102 | $1,02x10^{-5}$ | $4,3x10^{-4}$ | 0,334 | $2,3x10^{-3}$ |
| Kj/Kg | $10^{3}$ | 1 | 0,239 | 0,239 | 101,9 | $1,02x10^{-2}$ | 0,43 | 334,5 | 2,32 |
| cal/g | 4186,8 | 41868 | 1 | 1 | 426,9 | $4,27x10^{-2}$ | 1,8 | 1400 | 9,72 |
| Kcal/Kg | 4186,8 | 4,1868 | 1 | 1 | 426,9 | $4,27x10^{-2}$ | 1,8 | 1400 | 9,72 |
| Kgf.m/Kg | 9,80665 | $9,8x10^{-3}$ | $2,34x10^{-3}$ | $2,34x10^{-3}$ | 1 | $10^{-4}$ | $4,2x10^{-3}$ | 3,28 | $2,28x10^{-2}$ |
| at.m³/Kg | 98066,5 | 98,0665 | 23,4 | 23,4 | $10^{4}$ | 1 | 42,15 | 32800 | 227,78 |
| Btu/lb | 2326,5 | 2,326 | 0,556 | 0,556 | 237,2 | $2,37x10^{-2}$ | 1 | 778,15 | 5,4 |
| lbf.ft/lb | 2,99 | $2,9x10^{-3}$ | $7,14x10^{-4}$ | $7,14x10^{-4}$ | 0,3048 | $3,048x10^{-5}$ | $1,29x10^{-3}$ | 1 | $6,94x10^{-3}$ |
| psi.ft³/lb | 430,5 | 0,43 | 0,103 | 0,103 | 43,9 | $4,39x10^{-3}$ | 0,185 | 144 | 1 |

| Entalpia Específica | | | | |
|---|---|---|---|---|
| → ↑ | J/Kg | Kj/Kg | Kcal/Kg | Btu/lb |
| J/Kg | 1 | $10^{-3}$ | $2,4x10^{-4}$ | $4,3x10^{-4}$ |
| Kj/Kg | $10^{3}$ | 1 | 0,239 | 0,43 |
| Kcal/Kg | 4186,8 | 4,1868 | 1 | 1,8 |
| Btu/lb | 2326,5 | 2,326 | 0,556 | 1 |

| Entropia Específica | | | | |
|---|---|---|---|---|
| → ↑ | J/Kg.K | Kj/Kg.K | Kcal/Kg.K | Btu/lb.R |
| J/Kg.K | 1 | $10^{-3}$ | $2,4x10^{-4}$ | $2,4x10^{-4}$ |
| Kj/Kg.K | $10^{3}$ | 1 | 0,239 | 0,239 |
| Kcal/Kg.K | 4186,8 | 4,1868 | 1 | 1 |
| Btu/lb.R | 4186,8 | 4,1868 | 1 | 1 |

| Viscosidade Dinâmica n : Poise (P)* | | | | | | | |
|---|---|---|---|---|---|---|---|
| → ↑ | P | $\frac{Kg}{m.s}$ | $\frac{Kg}{m.h}$ | $\frac{Kgf.s}{m^2}$ | $\frac{Kgf.h}{m.s}$ | $\frac{lb}{m.s}$ | $\frac{lbf.s}{m.s}$ |
| P | 1 | 0,1 | 360 | 0,010197 | $2,833.10^{-6}$ | 0,06721 | $2,0885.10^{-3}$ |
| Kg/m.s | 10 | 1 | 3600 | 0,10197 | $2,833.10^{-5}$ | 0,6721 | $2,0885.10^{-2}$ |
| Kg/m.h | $2,778.10^{-3}$ | $2,778.10^{-4}$ | 1 | $2,833.10^{-5}$ | $78,68.10^{-10}$ | $18,67.10^{-5}$ | $5,801.10^{-6}$ |
| Kgf.s/m² | 98,07 | 9,807 | $353,04.10^{-2}$ | 1 | $2,778.10^{-4}$ | 6,5919 | 0,20482 |
| Kgf.h/m² | $353,04.10^{3}$ | $353,04.10^{2}$ | $127,09.10^{6}$ | 3600 | 1 | 23730 | 737,28 |
| lb/ft.s | 14,882 | 1,488 | 5357 | 0,15175 | $4,214.10^{-5}$ | 1 | 0,03108 |
| lbf.s/ft² | 478,8 | 47,88 | $172,4.10^{3}$ | 4,882 | $1,3558.10^{-3}$ | 32,174 | 1 |

*P $= \frac{dina.s}{cm^2} = \frac{g}{cm.s}$

| Condutividade Térmica [K] | | | | | | |
|---|---|---|---|---|---|---|
| → ↑ | $\frac{W}{cm.°C}$ | $\frac{Kcal}{m.h.°C}$ | $\frac{cal}{cm.s.°C}$ | $\frac{Btu.in}{ft^2.h.°F}$ | $\frac{Btu}{ft.h.°F}$ | $\frac{Btu}{in.h.°F}$ |
| $\frac{1\ W}{cm.°C} = \frac{10^2\ W}{m.°C}$ | 1 | 85,985 | 0,23885 | 693,5 | 57,79 | 4,815 |
| $\frac{1\ Kcal}{m.h.°C}$ | 0,01163 | 1 | $2,778.10^{-3}$ | 8,064 | 0,6719 | 0,05599 |
| $\frac{1\ cal}{cm.s.°C}$ | 4,1868 | 360 | 1 | 2903 | 241,9 | 20,16 |
| $\frac{1\ Btu.in}{ft^2.h.°F}$ | $1,422.10^{-3}$ | 0,124 | $3,445.10^{-4}$ | 1 | 0,08333 | $6,944.10^{-3}$ |
| $\frac{1\ Btu.in}{ft.h.°F}$ | $1,731.10^{-2}$ | 1,488 | $4,134.10^{-3}$ | 12 | 1 | 0,08333 |
| $\frac{1\ Btu}{in.h.°F}$ | 0,2077 | 17,858 | $4,964.10^{-2}$ | 144 | 12 | 1 |

| Coeficientes de Transmissão de Calor [h] | | | | | |
|---|---|---|---|---|---|
| → ↑ | $\frac{W}{cm^2.°C}$ | $\frac{W}{m^2.°C}$ | $\frac{Kcal}{m^2.h.°C}$ | $\frac{cal}{cm^2.s.°C}$ | $\frac{Btu}{ft^2.h.°F}$ |
| $\frac{1\ W}{cm^2.°C}$ | 1 | $10^{4}$ | 8598,5 | 0,23885 | 1761 |
| $\frac{1\ W}{m^2.°C}$ | $10^{-4}$ | 1 | 0,85985 | $2,3885.10^{-5}$ | 0,2048 |
| $\frac{1\ Kcal}{m^2.h.°C}$ | $1,163.10^{-4}$ | 4,163 | 1 | $2,77778.10^{-5}$ | 0,2048 |
| $\frac{1\ cal}{cm^2.s.°C}$ | 4,1868 | $4,1868.10^{4}$ | $3,6.10^{4}$ | 1 | 7373 |
| $\frac{1\ Btu}{ft^2.h.°F}$ | $5,681.10^{-4}$ | 5,681 | 4,886 | $1,356.10^{-4}$ | 1 |