# TM-1 TENSION METER CONVERSION TABLE

Conversion units are listed in kilograms force (Kgf). 1 kilogram force (Kfg) ≅ 10 Newtons(N)

| TM-1 DEFLECTION READING | Steel Round 2.6mm | Steel Round 2.55mm | Steel Round 2.3mm | Steel Round 2.0mm | Steel Round 1.8mm | Steel Round 1.7mm | Steel Round 1.6mm | Steel Round 1.5mm | Steel Round 1.4mm | Aluminum Round 3.3mm | Aluminum Round 2.8mm | Aluminum Round 2.54mm | Aluminum Round 2.28mm | Aluminum Blade 1.5 x 3.9mm | Aluminum Blade 1.8 x 5.3mm | Aluminum Blade 2.1 x 4.3mm | Titanium Round 2.0mm | Titanium Blade 1.4 x 2.6mm | Mavic R2R carbon blade | SPO Spinnergy Round 2.6mm | TM-1 DEFLECTION READING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | | | | | | | | | | | | 0 |
| 1 | | | | | | | | | | | | | | | | | | | | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | | | 2 |
| 3 | | | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | | | | | | | | | 59 | | 6 |
| 7 | | | | | | | | | | | | | 52 | | | | | | 63 | | 7 |
| 8 | | | | | | | | 54 | | | | | 58 | | | | | | 67 | | 8 |
| 9 | | | | | | | 52 | 58 | | | | | 65 | | | | | 53 | 72 | | 9 |
| 10 | | | | | | | 56 | 63 | | | | | 72 | | | | | 57 | 77 | 51 | 10 |
| 11 | | | | | | 54 | 61 | 69 | | | | | 81 | | | | | 62 | 82 | 54 | 11 |
| 12 | | | | | 51 | 58 | 66 | 75 | | | | | 91 | | | | | 67 | 89 | 57 | 12 |
| 13 | | | | | 56 | 64 | 73 | 83 | | | | 55 | 103 | | | | | 72 | 96 | 61 | 13 |
| 14 | | | | 53 | 61 | 70 | 80 | 91 | | | | 61 | 116 | 51 | | | | 79 | 105 | 64 | 14 |
| 15 | | | | 58 | 67 | 76 | 88 | 100 | | | 50 | 68 | 130 | 56 | | 52 | | 86 | 119 | 68 | 15 |
| 16 | | | | 64 | 73 | 84 | 97 | 111 | | | 57 | 77 | 147 | 61 | | 56 | | 95 | 125 | 73 | 16 |
| 17 | | | 53 | 70 | 81 | 93 | 107 | 123 | | | 64 | 86 | 166 | 68 | | 61 | | 105 | 137 | 77 | 17 |
| 18 | | | 58 | 77 | 89 | 103 | 119 | 137 | | | 73 | 96 | | 75 | | 66 | | 116 | 151 | 83 | 18 |
| 19 | | | 63 | 85 | 99 | 114 | 133 | 154 | | | 82 | 108 | | 83 | | 73 | | 129 | | 88 | 19 |
| 20 | | | 70 | 94 | 110 | 128 | 148 | 172 | | | 94 | 121 | | 92 | | 80 | | 143 | | 95 | 20 |
| 21 | | | 77 | 105 | 122 | 143 | 166 | | | | 107 | 137 | | 103 | 56 | 88 | | 160 | | 102 | 21 |
| 22 | | 54 | 86 | 117 | 137 | 160 | | | | | 122 | 154 | | 115 | 63 | 97 | | | | 109 | 22 |
| 23 | | 59 | 96 | 131 | 154 | | | | | 51 | 140 | 175 | | 130 | 71 | 109 | | | | 118 | 23 |
| 24 | | 66 | 107 | 148 | 174 | | | | | 58 | 160 | | | 146 | 81 | 121 | | | | 127 | 24 |
| 25 | | 73 | 120 | 167 | | | | | | 65 | | | | 165 | 92 | 136 | | | | 137 | 25 |
| 26 | 54 | 82 | 135 | | | | | | | 74 | | | | | 104 | 154 | | | | 148 | 26 |
| 27 | 55 60 | 92 | 153 | | | | | | | 83 | | | | | 118 | 174 | | | | 160 | 27 |
| 28 | 62 67 | 104 | 173 | | | | | | | 95 | | | | | 134 | | | | | 174 | 28 |
| 29 | 69 76 | 117 | | | | | | | | 108 | | | | | 153 | | | | | | 29 |
| 30 | 78 85 | 133 | | | | | | | | 123 | | | | | 174 | | | | | | 30 |
| 31 | 88 97 | 151 | | | | | | | | 141 | | | | | | | | | | | 31 |
| 32 | 100 110 | 172 | | | | | | | | 162 | | | | | | | | | | | 32 |
| 33 | 114 125 | | | | | | | | 56 | | | | | | | | | | | | 33 |
| 34 | 130 143 | | | | | | | | 65 | | | | | | | | | | | | 34 |
| 35 | 150 164 | | | | | | | | 76 | | | | | | | | | | | | 35 |
| 36 | 172 | | | | | | | | 89 | | | | | | | | | | | | 36 |
| 37 | | | | | | | | | 105 | | | | | | | | | | | | 37 |
| 38 | | | | | | | | | 123 | | | | | | | | | | | | 38 |
| 39 | | | | | | | | | 146 | | | | | | | | | | | | 39 |
| 40 | | | | | | | | | 174 | | | | | | | | | | | | 40 |
| 41 | | | | | | | | | | | | | | | | | | | | | 41 |
| 42 | | | | | | | | | | | | | | | | | | | | | 42 |
| 43 | | | | | | | | | | | | | | | | | | | | | 43 |
| 44 | | | | | | | | | | | | | | | | | | | | | 44 |

Steel Round Spokes | Aluminum Round Spokes | Aluminum Blade Spokes | Ti Round | Ti Blade | Mavic | SPO

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Conversion units are listed in kilograms force (Kgf). 1 kilogram force (Kfg) ≅ 10 Newtons(N)

| TM-1 DEFLECTION READING | Steel Blade 0.8 x 2.0mm | Steel Blade 0.9 x 2.2mm | Steel Blade 0.9 x 3.6mm | Steel Blade 1.0 x 2.0~2.2mm | Steel Blade 1.0 x 2.5~2.7mm | Steel Blade 1.0 x 3.2mm | Steel Blade 1.1 x 1.9~2.0mm | Steel Blade 1.1 x 3.0~3.6mm | Steel Blade 1.2 x 2.6mm | Steel Blade 1.2 x 1.9mm | Steel Blade 1.3 x 2.1mm | Steel Blade 1.3 x 2.2~2.5mm | Steel Blade 1.3 x 2.7mm | Steel Blade 1.4 x 2.3mm | Steel Blade 1.4 x 2.6mm | Steel Blade 1.4 x 2.9mm | Steel Blade 1.5 x 2.4~2.6mm | Steel Blade 1.7 x 2.3mm | TM-1 DEFLECTION READING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | | | | | | | | | | | | | 0 |
| 1 | | | | | | | | | | | | | | | | | | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | 2 |
| 3 | 53 | | | | | | | | | | | | | | | | | | 3 |
| 4 | 57 | | | | | | | | | | | | | | | | | | 4 |
| 5 | 62 | 53 | 52 | | | | | | | | | | | | | | | | 5 |
| 6 | 67 | 57 | 56 | 53 | 50 | | | | | | | | | | | | | | 6 |
| 7 | 73 | 62 | 60 | 57 | 54 | 53 | 51 | | | | | | | | | | | | 7 |
| 8 | 80 | 67 | 65 | 62 | 59 | 57 | 56 | 51 | | 53 | | | | | | | | | 8 |
| 9 | 88 | 73 | 71 | 68 | 64 | 62 | 60 | 55 | 51 | 58 | 51 | | | | | | | | 9 |
| 10 | 96 | 80 | 78 | 74 | 69 | 67 | 65 | 59 | 55 | 63 | 55 | | | | | | | | 10 |
| 11 | 106 | 88 | 85 | 81 | 76 | 73 | 71 | 65 | 59 | 68 | 60 | 53 | | | 50 | | | | 11 |
| 12 | 117 | 97 | 93 | 89 | 83 | 80 | 78 | 71 | 65 | 74 | 66 | 57 | 51 | | 54 | | 53 | | 12 |
| 13 | 130 | 107 | 103 | 98 | 91 | 88 | 86 | 77 | 71 | 82 | 72 | 62 | 56 | 53 | 59 | | 58 | | 13 |
| 14 | 145 | 118 | 114 | 108 | 100 | 97 | 94 | 85 | 77 | 90 | 79 | 68 | 61 | 58 | 65 | | 63 | 54 | 14 |
| 15 | 161 | 131 | 126 | 119 | 111 | 107 | 104 | 94 | 85 | 99 | 86 | 74 | 66 | 63 | 71 | | 69 | 59 | 15 |
| 16 | | 146 | 141 | 133 | 123 | 119 | 115 | 103 | 94 | 110 | 95 | 82 | 73 | 69 | 78 | | 76 | 65 | 16 |
| 17 | | 163 | 157 | 148 | 137 | 132 | 128 | 115 | 104 | 122 | 106 | 90 | 80 | 76 | 86 | 54 | 83 | 71 | 17 |
| 18 | | | 176 | 165 | 153 | 148 | 143 | 128 | 116 | 136 | 117 | 100 | 89 | 84 | 95 | 59 | 92 | 78 | 18 |
| 19 | | | | | 171 | 165 | 160 | 142 | 129 | 152 | 131 | 111 | 98 | 93 | 105 | 65 | 102 | 87 | 19 |
| 20 | | | | | | | 180 | 160 | 144 | 170 | 146 | 124 | 109 | 103 | 117 | 72 | 114 | 96 | 20 |
| 21 | | | | | | | | 179 | 161 | | 164 | 138 | 122 | 115 | 131 | 79 | 127 | 107 | 21 |
| 22 | | | | | | | | | | | | 155 | 137 | 129 | 146 | 88 | 142 | 120 | 22 |
| 23 | | | | | | | | | | | | 175 | 153 | 144 | 165 | 98 | 160 | 134 | 23 |
| 24 | | | | | | | | | | | | | 173 | 163 | | 109 | | 151 | 24 |
| 25 | | | | | | | | | | | | | | | | 123 | | 170 | 25 |
| 26 | | | | | | | | | | | | | | | | 138 | | | 26 |
| 27 | | | | | | | | | | | | | | | | 156 | | | 27 |
| 28 | | | | | | | | | | | | | | | | 176 | | | 28 |
| 29 | | | | | | | | | | | | | | | | | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | 30 |
| 31 | | | | | | | | | | | | | | | | | | | 31 |
| 32 | | | | | | | | | | | | | | | | | | | 32 |
| 33 | | | | | | | | | | | | | | | | | | | 33 |
| | | | | | | | | | | | | | | | | | | | 34 |
| | | | | | | | | | | | | | | | | | | | 35 |
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# TM-1

## TENSION METER CONVERSION TABLE

Steel Blade