

| Outside Diameter | Wall thickness |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  | 0,5            | 0,60  | 0,70  | 0,80  | 0,90  | 1,00  | 1,20  | 1,25  | 1,50  | 1,60  | 1,65  | 2,00  | 2,11  | 2,41  | 2,50  | 2,60  | 2,65  | 2,77  | 3,00  |
| 15,88            | 0.193          | 0.230 | 0.267 | 0.303 | 0.339 | 0.374 | 0.443 | 0.460 | 0.542 | 0.574 |       |       |       |       |       |       |       |       |       |
| 16,00            | 0.195          | 0.232 | 0.269 | 0.306 | 0.342 | 0.377 | 0.446 | 0.463 | 0.547 | 0.579 |       |       |       |       |       |       |       |       |       |
| 17,20            | 0.210          | 0.250 | 0.290 | 0.330 | 0.369 | 0.407 | 0.482 | 0.501 | 0.592 | 0.627 | 0.645 |       |       |       |       |       |       |       |       |
| 18,00            | 0.220          | 0.262 | 0.304 | 0.346 | 0.387 | 0.427 | 0.507 | 0.526 | 0.622 | 0.659 | 0.678 | 0.804 |       |       |       |       |       |       |       |
| 19,00            | 0.232          | 0.277 | 0.322 | 0.366 | 0.409 | 0.452 | 0.537 | 0.558 | 0.660 | 0.700 | 0.719 | 0.854 | 0.896 |       |       |       |       |       |       |
| 19,05            | 0.233          | 0.278 | 0.323 | 0.367 | 0.410 | 0.454 | 0.538 | 0.559 | 0.662 | 0.702 | 0.721 | 0.857 | 0.898 |       |       |       |       |       |       |
| 20,00            | 0.245          | 0.293 | 0.340 | 0.386 | 0.432 | 0.477 | 0.567 | 0.589 | 0.697 | 0.740 | 0.761 | 0.905 | 0.949 |       |       |       |       |       |       |
| 21,30            | 0.261          | 0.312 | 0.362 | 0.412 | 0.461 | 0.510 | 0.606 | 0.630 | 0.746 | 0.792 | 0.815 | 0.970 | 1.018 |       | 1.181 | 1.222 |       |       |       |
| 22,00            | 0.270          | 0.323 | 0.375 | 0.426 | 0.477 | 0.528 | 0.627 | 0.652 | 0.773 | 0.820 | 0.844 | 1.005 | 1.055 |       | 1.225 | 1.268 |       |       |       |
| 22,22            | 0.273          | 0.326 | 0.379 | 0.431 | 0.482 | 0.533 | 0.634 | 0.659 | 0.781 | 0.829 | 0.853 | 1.016 | 1.066 |       | 1.239 | 1.282 |       |       |       |
| 23,00            | 0.283          | 0.338 | 0.392 | 0.446 | 0.500 | 0.553 | 0.657 | 0.683 | 0.810 | 0.860 | 0.885 | 1.055 | 1.108 |       | 1.288 | 1.333 |       |       |       |
| 24,00            | 0.295          | 0.353 | 0.410 | 0.466 | 0.522 | 0.578 | 0.688 | 0.715 | 0.848 | 0.901 | 0.927 | 1.106 | 1.161 |       | 1.351 | 1.398 |       |       |       |
| 25,00            | 0.308          | 0.368 | 0.427 | 0.487 | 0.545 | 0.603 | 0.718 | 0.746 | 0.886 | 0.941 | 0.968 | 1.156 | 1.214 | 1.368 | 1.414 | 1.464 |       |       |       |
| 25,40            | 0.313          | 0.374 | 0.434 | 0.495 | 0.554 | 0.613 | 0.730 | 0.759 | 0.901 | 0.957 | 0.985 | 1.176 | 1.235 | 1.392 | 1.439 | 1.490 | 1.515 | 1.575 |       |
| 26,70            |                | 0.394 | 0.457 | 0.521 | 0.584 | 0.646 | 0.769 | 0.799 | 0.950 | 1.009 | 1.039 | 1.241 | 1.304 | 1.471 | 1.520 | 1.575 | 1.602 | 1.666 |       |
| 26,90            |                | 0.397 | 0.461 | 0.525 | 0.588 | 0.651 | 0.775 | 0.806 | 0.957 | 1.017 | 1.047 | 1.251 | 1.314 | 1.483 | 1.533 | 1.588 | 1.615 | 1.680 |       |
| 28,00            |                |       | 0.480 | 0.547 | 0.613 | 0.679 | 0.808 | 0.840 | 0.999 | 1.061 | 1.093 | 1.307 | 1.373 | 1.550 | 1.602 | 1.660 | 1.688 | 1.756 |       |
| 28,58            |                |       | 0.490 | 0.558 | 0.626 | 0.693 | 0.826 | 0.859 | 1.021 | 1.085 | 1.117 | 1.336 | 1.404 | 1.585 | 1.638 | 1.697 | 1.727 | 1.797 |       |
| 29,00            |                |       | 0.498 | 0.567 | 0.636 | 0.704 | 0.838 | 0.872 | 1.037 | 1.102 | 1.134 | 1.357 | 1.426 | 1.610 | 1.665 | 1.725 | 1.755 | 1.826 |       |
| 30,00            |                |       | 0.515 | 0.587 | 0.658 | 0.729 | 0.868 | 0.903 | 1.074 | 1.142 | 1.176 | 1.407 | 1.479 | 1.671 | 1.728 | 1.790 | 1.821 | 1.895 |       |
| 31,75            |                |       | 0.546 | 0.622 | 0.698 | 0.773 | 0.921 | 0.958 | 1.140 | 1.212 | 1.248 | 1.495 | 1.572 | 1.777 | 1.838 | 1.905 | 1.938 | 2.017 |       |
| 31,80            |                |       | 0.547 | 0.623 | 0.699 | 0.774 | 0.923 | 0.960 | 1.142 | 1.214 | 1.250 | 1.498 | 1.574 | 1.780 | 1.841 | 1.908 | 1.941 | 2.021 |       |
| 32,00            |                |       | 0.551 | 0.627 | 0.703 | 0.779 | 0.929 | 0.966 | 1.150 | 1.222 | 1.258 | 1.508 | 1.585 | 1.792 | 1.853 | 1.921 | 1.955 | 2.035 |       |
| 33,00            |                |       | 0.568 | 0.647 | 0.726 | 0.804 | 0.959 | 0.997 | 1.187 | 1.263 | 1.300 | 1.558 | 1.638 | 1.853 | 1.916 | 1.986 | 2.021 | 2.104 |       |
| 33,40            |                |       | 0.575 | 0.655 | 0.735 | 0.814 | 0.971 | 1.010 | 1.202 | 1.279 | 1.316 | 1.578 | 1.659 | 1.877 | 1.941 | 2.012 | 2.048 | 2.132 | 2.292 |
| 33,70            |                |       | 0.581 | 0.661 | 0.742 | 0.822 | 0.980 | 1.019 | 1.214 | 1.291 | 1.329 | 1.593 | 1.675 | 1.895 | 1.960 | 2.032 | 2.068 | 2.153 | 2.314 |
| 34,00            |                |       | 0.586 | 0.667 | 0.749 | 0.829 | 0.989 | 1.029 | 1.225 | 1.303 | 1.341 | 1.608 | 1.691 | 1.913 | 1.979 | 2.052 | 2.088 | 2.174 | 2.337 |
| 35,00            |                |       | 0.603 | 0.688 | 0.771 | 0.854 | 1.019 | 1.060 | 1.263 | 1.343 | 1.383 | 1.659 | 1.744 | 1.974 | 2.042 | 2.117 | 2.154 | 2.244 | 2.412 |
| 36,00            |                |       | 0.621 | 0.708 | 0.794 | 0.880 | 1.049 | 1.092 | 1.300 | 1.383 | 1.424 | 1.709 | 1.797 | 2.034 | 2.105 | 2.182 | 2.221 | 2.313 | 2.488 |
| 37,00            |                |       | 0.639 | 0.728 | 0.816 | 0.905 | 1.080 | 1.123 | 1.338 | 1.423 | 1.466 | 1.759 | 1.850 | 2.095 | 2.167 | 2.248 | 2.288 | 2.383 | 2.563 |
| 38,00            |                |       | 0.656 | 0.748 | 0.839 | 0.930 | 1.110 | 1.154 | 1.376 | 1.464 | 1.507 | 1.809 | 1.903 | 2.155 | 2.230 | 2.313 | 2.354 | 2.452 | 2.639 |
| 38,10            |                |       | 0.658 | 0.750 | 0.841 | 0.932 | 1.113 | 1.158 | 1.380 | 1.468 | 1.511 | 1.814 | 1.908 | 2.162 | 2.237 | 2.319 | 2.361 | 2.459 | 2.646 |
| 40,00            |                |       | 0.691 | 0.788 | 0.884 | 0.980 | 1.170 | 1.217 | 1.451 | 1.544 | 1.590 | 1.910 | 2.009 | 2.277 | 2.356 | 2.444 | 2.487 | 2.592 | 2.789 |
| 41,00            |                |       |       | 0.808 | 0.907 | 1.005 | 1.200 | 1.249 | 1.489 | 1.584 | 1.632 | 1.960 | 2.062 | 2.337 | 2.419 | 2.509 | 2.554 | 2.661 | 2.865 |
| 42,00            |                |       |       | 0.828 | 0.930 | 1.030 | 1.230 | 1.280 | 1.527 | 1.624 | 1.673 | 2.010 | 2.115 | 2.398 | 2.482 | 2.574 | 2.620 | 2.731 | 2.940 |
| 42,40            |                |       |       | 0.836 | 0.939 | 1.040 | 1.242 | 1.293 | 1.542 | 1.640 | 1.690 | 2.031 | 2.136 | 2.422 | 2.507 | 2.600 | 2.647 | 2.759 | 2.970 |
| 43,00            |                |       |       | 0.952 | 1.055 | 1.261 | 1.311 | 1.564 | 1.665 | 1.715 | 2.061 | 2.168 | 2.458 | 2.544 | 2.640 | 2.687 | 2.800 | 3.016 |       |
| 44,50            |                |       |       | 0.986 | 1.093 | 1.306 | 1.359 | 1.621 | 1.725 | 1.777 | 2.136 | 2.248 | 2.549 | 2.639 | 2.738 | 2.787 | 2.905 | 3.129 |       |
| 45,00            |                |       |       | 0.997 | 1.106 | 1.321 | 1.374 | 1.640 | 1.745 | 1.797 | 2.161 | 2.274 | 2.579 | 2.670 | 2.770 | 2.820 | 2.940 | 3.166 |       |
| 48,30            |                |       |       | 1.072 | 1.189 | 1.420 | 1.478 | 1.764 | 1.878 | 1.934 | 2.327 | 2.449 | 2.779 | 2.877 | 2.986 | 3.040 | 3.169 | 3.415 |       |
| 50,00            |                |       |       | 1.110 | 1.231 | 1.472 | 1.531 | 1.828 | 1.946 | 2.005 | 2.412 | 2.539 | 2.882 | 2.984 | 3.097 | 3.153 | 3.288 | 3.543 |       |
| 50,80            |                |       |       | 1.129 | 1.251 | 1.496 | 1.556 | 1.858 | 1.978 | 2.038 | 2.453 | 2.582 | 2.931 | 3.034 | 3.149 | 3.207 | 3.343 | 3.604 |       |
| 51,00            |                |       |       | 1.133 | 1.257 | 1.502 | 1.563 | 1.866 | 1.986 | 2.046 | 2.463 | 2.592 | 2.943 | 3.047 | 3.162 | 3.220 | 3.357 | 3.619 |       |
| 52,00            |                |       |       | 1.282 | 1.532 | 1.594 | 1.904 | 2.026 | 2.088 | 2.513 | 2.645 | 3.003 | 3.110 | 3.228 | 3.286 | 3.427 | 3.694 |       |       |
| 53,00            |                |       |       | 1.307 | 1.562 | 1.626 | 1.941 | 2.067 | 2.129 | 2.563 | 2.698 | 3.064 | 3.173 | 3.293 | 3.353 | 3.497 | 3.770 |       |       |
| 54,00            |                |       |       | 1.332 | 1.592 | 1.657 | 1.979 | 2.107 | 2.171 | 2.614 | 2.751 | 3.124 | 3.235 | 3.358 | 3.420 | 3.566 | 3.845 |       |       |
| 57,00            |                |       |       | 1.407 | 1.683 | 1.751 | 2.092 | 2.228 | 2.295 | 2.764 | 2.911 | 3.306 | 3.424 | 3.554 | 3.619 | 3.775 | 4.071 |       |       |
| 60,00            |                |       |       | 1.483 | 1.773 | 1.845 | 2.205 | 2.348 | 2.419 | 2.915 | 3.070 | 3.488 | 3.612 | 3.750 | 3.819 | 3.984 | 4.297 |       |       |
| 60,30            |                |       |       | 1.490 | 1.782 | 1.855 | 2.216 | 2.360 | 2.432 | 2.930 | 3.085 | 3.506 | 3.631 | 3.770 | 3.839 | 4.005 | 4.320 |       |       |
| 63,00            |                |       |       | 1.558 | 1.864 | 1.940 | 2.318 | 2.469 | 2.544 | 3.066 | 3.229 | 3.670 | 3.801 | 3.946 | 4.019 | 4.193 | 4.523 |       |       |
| 63,50            |                |       |       | 1.571 | 1.879 | 1.955 | 2.337 | 2.489 | 2.565 | 3.091 | 3.255 | 3.700 | 3.832 | 3.979 | 4.052 | 4.227 | 4.561 |       |       |

Weight (kg/meter)

**LEGEND:**

|                          |
|--------------------------|
| ZM size range            |
| Annealed & Pickled only  |
| On request               |
| Bead removing on request |

**NOTES**

The entire range is available Bright Annealed or Annealed & Pickled  
Welded tube up to 30 meters long