

**Table 2.2 HOT ROLLED MECHANICAL TUBES - CPE MILL**

| WT    | mm    | 2.3                | 2.6   | 2.77  | 2.87  | 2.9   | 3.2   | 3.6   | 3.91  | 4     | 4.5   | 5     | 5.5   | 6.02  | 6.3   | 7.1   | 7.62   | 8.0   | 8.56   | 8.8   | 9.5   | 10.0  | 11.0  | 11.13  | 12.00  |        |
|-------|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------|-------|-------|--------|--------|--------|
|       | in    | 0.091              | 0.102 | 0.109 | 0.113 | 0.114 | 0.126 | 0.142 | 0.154 | 0.157 | 0.177 | 0.197 | 0.217 | 0.237 | 0.248 | 0.280 | 0.300  | 0.315 | 0.337  | 0.346 | 0.375 | 0.394 | 0.433 | 0.438  | 0.472  |        |
| OD    |       | Length min-max (m) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| mm    | in    |                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 21.3  | 0.839 | 6-12               | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 26.7  | 1.051 | 6-12               | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 26.9  | 1.059 | 6-12               | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 28.0  | 1.102 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 30.0  | 1.181 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 31.8  | 1.252 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 33.4  | 1.315 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 33.7  | 1.327 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 38.0  | 1.496 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 42.2  | 1.661 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 42.4  | 1.669 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |       |       |        |       |        |       |       |       |       |        |        |        |
| 48.3  | 1.902 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |       |        |       |        |       |       |       |       |        |        |        |
| 51.0  | 2.008 |                    | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |        |       |        |       |       |       |       |        |        |        |
| 54.0  | 2.126 |                    |       |       | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |        |       |        |       |       |       |       |        |        |        |
| 57.0  | 2.244 |                    |       |       | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  |        |       |        |       |       |       |       |        |        |        |
| 60.3  | 2.374 |                    |       |       | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 8.2-12 | 6-12  | 6-12   | 6-12  |       |       |       |        |        |        |
| 63.5  | 2.500 |                    |       |       | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 7.7-12 | 6-12  | 6-12   | 6-12  | 6-12  |       |       |        |        |        |
| 70.0  | 2.756 |                    |       |       | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 7.9-12 | 6-12  | 6-12   | 6-12  | 6-12  | 6-12  |       |        |        |        |
| 73.0  | 2.874 |                    |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.6-12 | 7-13  | 7-13   | 7-13  | 7-13  | 7-13  |       |        |        |        |
| 76.1  | 2.996 |                    |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.8-12 | 7-13  | 7-13   | 7-13  | 7-13  | 6-12  | 6-12  |        |        |        |
| 82.5  | 3.248 |                    |       |       |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.8-12 | 7-13  | 7-13   | 7-13  | 7-13  | 6-12  | 6-12  |        |        |        |
| 88.9  | 3.500 |                    |       |       |       |       | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 6-12  | 7.2-12 | 6-12  | 6-12   | 6-12  | 6-12  | 6-12  | 6-12  | 6-12   | 6-12   | 6-12   |
| 95.0  | 3.740 |                    |       |       |       |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.6-12 | 7-13  | 7-13   | 7-13  | 7-13  | 7-13  | 7-13  | 7-13   | 7-13   | 7-13   |
| 101.6 | 4.000 |                    |       |       |       |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.7-12 | 7-13  | 7-13   | 7-13  | 7-13  | 7-13  | 7-13  | 7-13   | 7-13   | 7-13   |
| 108.0 | 4.252 |                    |       |       |       |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.3-12 | 7-13  | 7-13   | 7-13  | 7-13  | 7-13  | 7-13  | 7-13   | 7-13   | 7-13   |
| 114.3 | 4.500 |                    |       |       |       |       |       | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7-13  | 7.1-12 | 7-13  | 7-13   | 7-13  | 7-13  | 7-13  | 6-12  | 5.5-11 | 5.5-11 | 5.5-11 |
| 121.0 | 4.760 |                    |       |       |       |       |       |       |       |       |       |       |       |       |       |       | 6-12   | 6-12  | 7.0-12 | 6-12  | 6-12  | 6-12  | 6-12  | 5.5-11 | 5.5-11 | 5.5-11 |

6% HP1 Category    
 8% HP2 Category    
 5% HP3 Category    
 81% HP4 Category    
 

 polygonal aspect at ID being within the tolerances