

| REDONDO (mm) | | ESPESSURA DO TUBO (mm) | | | | | | | | | | | | | | | | | | | |
|--------------|----------------|------------------------|------|-------|-------|------------|--------------|------------|------------|------------|------------|------------|------------|------------|------|------|------|------|------|------|------|
| | | BF | ZN | BF | ZN | BF | ZN | BF | ZN | BQ | BF | ZN | BQ | BQ | BQ | ZN | BQ | BQ | BQ | BQ | BQ |
| | | 0,90 | 0,95 | 1,06 | 1,11 | 1,20 | 1,25 | 1,50 | 1,55 | 1,80 | 1,90 | 1,95 | 2,00 | 2,25 | 2,65 | 2,70 | 3,00 | 3,35 | 3,75 | 4,25 | 4,75 |
| 15,87 | TOTAL BARRAS | 547 | 469 | 469 | 469 | 397 | 397 | 331 | 331 | 271 | 271 | | | | | | | | | | |
| | PESO MÉDIO KG | 2,0 | 2,1 | 2,3 | 2,4 | 2,6 | 2,7 | 3,2 | 3,3 | 3,7 | 3,9 | | | | | | | | | | |
| | PESO DO FARDOS | 1.090 | 984 | 1.089 | 1.137 | 1.034 | 1.074 | 1.056 | 1.087 | 1.016 | 1.064 | | | | | | | | | | |
| 19,05 | TOTAL BARRAS | 271 | 271 | 271 | 271 | 271 | 271 | 271 | 217 | 217 | 217 | 217 | | | | | | | | | |
| | PESO MÉDIO KG | 2,4 | 2,5 | 2,8 | 2,9 | 3,2 | 3,3 | 3,9 | 4,0 | 4,6 | 4,8 | 4,9 | 5,0 | | | | | | | | |
| | PESO DO FARDOS | 655 | 690 | 765 | 799 | 859 | 892 | 1056 | 1088 | 997 | 1046 | 1071 | 1095 | | | | | | | | |
| 20,70 | TOTAL BARRAS | 397 | 331 | 331 | 331 | 271 | 271 | 217 | 217 | 169 | 169 | 169 | 169 | | | | | | | | |
| | PESO MÉDIO KG | 2,6 | 2,8 | 3,1 | 3,2 | 3,5 | 3,6 | 4,3 | 4,4 | 5,0 | 5,3 | 5,4 | 5,5 | 6,1 | | | | | | | |
| | PESO DO FARDOS | 1.047 | 919 | 1.020 | 1.065 | 938 | 975 | 925 | 953 | 851 | 893 | 914 | 935 | 1.038 | | | | | | | |
| 20,96 | TOTAL BARRAS | 397 | 331 | 331 | 331 | 271 | 271 | 217 | 217 | 169 | 169 | 169 | 169 | 127 | | | | | | | |
| | PESO MÉDIO KG | 2,7 | 2,8 | 3,1 | 3,3 | 3,5 | 3,6 | 4,3 | 4,5 | 5,1 | 5,4 | 5,5 | 5,6 | 6,2 | | | | | | | |
| | PESO DO FARDOS | 1061 | 931 | 1033 | 1079 | 951 | 988 | 937 | 966 | 862 | 906 | 927 | 948 | 791 | | | | | | | |
| 21,30 | TOTAL BARRAS | 397 | 331 | 331 | 331 | 271 | 271 | 217 | 217 | 169 | 169 | 169 | 169 | 140 | | | | | | | |
| | PESO MÉDIO KG | 2,7 | 2,9 | 3,2 | 3,3 | 3,6 | 3,7 | 4,4 | 4,5 | 5,2 | 5,5 | 5,6 | 5,7 | 6,3 | | | | | | | |
| | PESO DO FARDOS | 1.079 | 947 | 1.051 | 1.098 | 967 | 1.005 | 954 | 983 | 878 | 922 | 944 | 965 | 888 | | | | | | | |

Itens em negrito/sublinhado - RIR / RA

* Peso teórico

| REDONDO (mm) | | ESPESSURA DO TUBO (mm) | | | | | | | | | | | | | | | | | | | |
|---------------|----------------|------------------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|
| | | BF 0,90 | ZN 0,95 | BF 1,06 | ZN 1,11 | BF 1,20 | ZN 1,25 | BF 1,50 | ZN 1,55 | BQ 1,80 | BF 1,90 | ZN 1,95 | BQ 2,00 | BQ 2,25 | BQ 2,65 | ZN 2,70 | BQ 3,00 | BQ 3,35 | BQ 3,75 | BQ 4,25 | BQ 4,75 |
| 22,22 / 22,20 | TOTAL BARRAS | 331 | 331 | 271 | 271 | <u>271</u> | <u>271</u> | <u>217</u> | <u>217</u> | <u>169</u> | <u>169</u> | <u>169</u> | <u>169</u> | <u>127</u> | | | | | | | |
| | PESO MÉDIO KG | 2,8 | 3,0 | 3,3 | 3,5 | <u>3,7</u> | <u>3,9</u> | <u>4,6</u> | <u>4,7</u> | <u>5,4</u> | <u>5,7</u> | <u>5,8</u> | <u>6,0</u> | <u>6,6</u> | | | | | | | |
| | PESO DO FARDOS | 940 | 990 | 899 | 940 | <u>1011</u> | <u>1051</u> | <u>998</u> | <u>1029</u> | <u>919</u> | <u>965</u> | <u>988</u> | <u>1011</u> | <u>844</u> | | | | | | | |
| 25,40 / 25,00 | TOTAL BARRAS | 217 | 217 | 217 | 217 | <u>217</u> | <u>217</u> | <u>169</u> | <u>169</u> | <u>169</u> | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | | | | | | | |
| | PESO MÉDIO KG | 3,2 | 3,4 | 3,8 | 3,9 | <u>4,2</u> | <u>4,4</u> | <u>5,2</u> | <u>5,4</u> | <u>6,2</u> | <u>6,5</u> | <u>6,7</u> | <u>6,8</u> | <u>7,6</u> | | | | | | | |
| | PESO DO FARDOS | 696 | 734 | 815 | 851 | <u>917</u> | <u>953</u> | <u>881</u> | <u>909</u> | <u>1.044</u> | <u>1.098</u> | <u>1.124</u> | <u>864</u> | <u>962</u> | | | | | | | |
| 26,70 / 26,90 | TOTAL BARRAS | 271 | 271 | 217 | 217 | <u>217</u> | <u>217</u> | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | | | | |
| | PESO MÉDIO KG | 3,4 | 3,6 | 4,0 | 4,2 | <u>4,5</u> | <u>4,7</u> | <u>5,6</u> | <u>5,8</u> | <u>6,6</u> | <u>7,0</u> | <u>7,1</u> | <u>7,3</u> | <u>8,1</u> | <u>9,4</u> | <u>9,6</u> | <u>10,5</u> | <u>11,6</u> | | | |
| | PESO DO FARDOS | 931 | 981 | 873 | 912 | <u>983</u> | <u>1021</u> | <u>945</u> | <u>975</u> | <u>842</u> | <u>885</u> | <u>907</u> | <u>928</u> | <u>1034</u> | <u>858</u> | <u>873</u> | <u>957</u> | <u>1053</u> | | | |
| 28,60 | TOTAL BARRAS | 271 | 217 | 217 | 217 | <u>217</u> | <u>217</u> | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | | | | | | | |
| | PESO MÉDIO KG | 3,7 | 3,9 | 4,3 | 4,5 | <u>4,9</u> | <u>5,1</u> | <u>6,0</u> | <u>6,2</u> | <u>7,1</u> | <u>7,5</u> | <u>7,7</u> | <u>7,9</u> | <u>8,8</u> | | | | | | | |
| | PESO DO FARDOS | 1.000 | 843 | 937 | 980 | <u>1.056</u> | <u>1.098</u> | <u>1.017</u> | <u>1.048</u> | <u>907</u> | <u>953</u> | <u>977</u> | <u>1.000</u> | <u>1.114</u> | | | | | | | |
| 30,00 / 31,75 | TOTAL BARRAS | 217 | 217 | 217 | 217 | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | | | | |
| | PESO MÉDIO KG | 4,1 | 4,3 | 4,8 | 5,0 | <u>5,4</u> | <u>5,6</u> | <u>6,7</u> | <u>6,9</u> | <u>8,0</u> | <u>8,4</u> | <u>8,6</u> | <u>8,8</u> | <u>9,8</u> | <u>11,4</u> | <u>11,6</u> | <u>12,8</u> | <u>14,1</u> | | | |
| | PESO DO FARDOS | 892 | 940 | 1.045 | 1.092 | <u>917</u> | <u>953</u> | <u>853</u> | <u>880</u> | <u>1.013</u> | <u>1.066</u> | <u>1.092</u> | <u>1.118</u> | <u>894</u> | <u>1.038</u> | <u>1.056</u> | <u>1.161</u> | <u>1.281</u> | | | |
| 33,40 / 33,70 | TOTAL BARRAS | 217 | 217 | 217 | 217 | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> |
| | PESO MÉDIO KG | 4,3 | 4,6 | 5,1 | 5,3 | <u>5,7</u> | <u>5,9</u> | <u>7,1</u> | <u>7,3</u> | <u>8,4</u> | <u>8,9</u> | <u>9,1</u> | <u>9,3</u> | <u>10,4</u> | <u>12,1</u> | <u>12,3</u> | <u>13,5</u> | <u>14,9</u> | <u>16,5</u> | | |
| | PESO DO FARDOS | 939 | 990 | 1.101 | 1.151 | <u>966</u> | <u>1.005</u> | <u>899</u> | <u>928</u> | <u>766</u> | <u>806</u> | <u>826</u> | <u>846</u> | <u>944</u> | <u>1.097</u> | <u>1.116</u> | <u>1.228</u> | <u>1.356</u> | <u>1.497</u> | | |

Itens em negrito/sublinhado - RIR / RA

* Peso teórico

| REDONDO (mm) | | ESPESSURA DO TUBO (mm) | | | | | | | | | | | | | | | | | | |
|---------------|---------------|------------------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
| | | BF 0,90 | ZN 0,95 | BF 1,06 | ZN 1,11 | BF 1,20 | ZN 1,25 | BF 1,50 | ZN 1,55 | BQ 1,80 | BF 1,90 | ZN 1,95 | BQ 2,00 | BQ 2,25 | BQ 2,65 | ZN 2,70 | BQ 3,00 | BQ 3,35 | BQ 3,75 | BQ 4,25 |
| 34,92 | TOTAL BARRAS | 217 | 217 | 217 | 169 | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> |
| | PESO MÉDIO KG | 4,5 | 4,8 | 5,3 | 5,6 | <u>6,0</u> | <u>6,2</u> | <u>7,4</u> | <u>7,7</u> | <u>8,8</u> | <u>9,3</u> | <u>9,5</u> | <u>9,7</u> | <u>10,9</u> | <u>12,7</u> | <u>12,9</u> | <u>14,2</u> | <u>15,6</u> | <u>17,3</u> | |
| | PESO DO FARDO | 983 | 1.036 | 1.152 | 938 | <u>1.012</u> | <u>1.052</u> | <u>942</u> | <u>972</u> | <u>1.120</u> | <u>1.179</u> | <u>1.208</u> | <u>887</u> | <u>990</u> | <u>1.151</u> | <u>1.171</u> | <u>1.289</u> | <u>1.424</u> | <u>1.574</u> | |
| 38,10 | TOTAL BARRAS | 169 | 169 | 169 | 169 | <u>169</u> | <u>169</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | |
| | PESO MÉDIO KG | 5,0 | 5,2 | 5,8 | 6,1 | <u>6,6</u> | <u>6,8</u> | <u>8,1</u> | <u>8,4</u> | <u>9,7</u> | <u>10,2</u> | <u>10,4</u> | <u>10,7</u> | <u>11,9</u> | <u>13,9</u> | <u>14,1</u> | <u>15,6</u> | <u>17,2</u> | <u>19,1</u> | |
| | PESO DO FARDO | 837 | 883 | 982 | 1.027 | <u>1.107</u> | <u>1.152</u> | <u>1.032</u> | <u>1.065</u> | <u>880</u> | <u>926</u> | <u>949</u> | <u>972</u> | <u>1.086</u> | <u>848</u> | <u>863</u> | <u>950</u> | <u>1.051</u> | <u>1.163</u> | |
| 40,00 | TOTAL BARRAS | 127 | 127 | 127 | 127 | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | |
| | PESO MÉDIO KG | 5,2 | 5,5 | 6,1 | 6,4 | <u>6,9</u> | <u>7,2</u> | <u>8,5</u> | <u>8,8</u> | <u>10,2</u> | <u>10,7</u> | <u>11,0</u> | <u>11,2</u> | <u>12,6</u> | <u>14,6</u> | <u>14,9</u> | <u>16,4</u> | <u>18,2</u> | <u>20,1</u> | |
| | PESO DO FARDO | 661 | 697 | 776 | 811 | <u>875</u> | <u>910</u> | <u>1.085</u> | <u>1.120</u> | <u>926</u> | <u>975</u> | <u>999</u> | <u>1.023</u> | <u>1.144</u> | <u>893</u> | <u>909</u> | <u>1.002</u> | <u>1.108</u> | <u>1.227</u> | |
| 41,27 | TOTAL BARRAS | 127 | 127 | 127 | 127 | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | | | | | | |
| | PESO MÉDIO KG | 5,4 | 5,7 | 6,3 | 6,6 | <u>7,1</u> | <u>7,4</u> | <u>8,8</u> | <u>9,1</u> | <u>10,5</u> | <u>11,1</u> | <u>11,3</u> | <u>11,6</u> | <u>13,0</u> | | | | | | |
| | PESO DO FARDO | 683 | 720 | 801 | 838 | <u>904</u> | <u>940</u> | <u>1.121</u> | <u>1.157</u> | <u>957</u> | <u>1.007</u> | <u>1.032</u> | <u>1.058</u> | <u>1.182</u> | | | | | | |
| 42,20 / 42,40 | TOTAL BARRAS | 127 | 127 | 127 | 127 | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | |
| | PESO MÉDIO KG | 5,5 | 5,8 | 6,5 | 6,7 | <u>7,3</u> | <u>7,6</u> | <u>9,0</u> | <u>9,3</u> | <u>10,8</u> | <u>11,3</u> | <u>11,6</u> | <u>11,9</u> | <u>13,3</u> | <u>15,5</u> | <u>15,8</u> | <u>17,4</u> | <u>19,3</u> | <u>21,3</u> | |
| | PESO DO FARDO | 699 | 736 | 819 | 857 | <u>925</u> | <u>962</u> | <u>1.147</u> | <u>1.184</u> | <u>979</u> | <u>1.031</u> | <u>1.057</u> | <u>1.083</u> | <u>1.210</u> | <u>946</u> | <u>963</u> | <u>1.061</u> | <u>1.175</u> | <u>1.301</u> | |
| 44,45 | TOTAL BARRAS | 127 | 127 | 127 | 127 | <u>127</u> | <u>127</u> | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>37</u> | |
| | PESO MÉDIO KG | 5,9 | 6,2 | 6,9 | 7,2 | <u>7,8</u> | <u>8,1</u> | <u>9,7</u> | <u>10,0</u> | <u>11,5</u> | <u>12,1</u> | <u>12,4</u> | <u>12,7</u> | <u>14,2</u> | <u>16,6</u> | <u>16,9</u> | <u>18,6</u> | <u>20,6</u> | <u>22,9</u> | |
| | PESO DO FARDO | 746 | 786 | 875 | 916 | <u>988</u> | <u>1.028</u> | <u>1.226</u> | <u>1.266</u> | <u>1.047</u> | <u>1.103</u> | <u>758</u> | <u>776</u> | <u>868</u> | <u>1.013</u> | <u>1.031</u> | <u>1.137</u> | <u>1.259</u> | <u>847</u> | |
| 47,60 | TOTAL BARRAS | 127 | 127 | 127 | 127 | <u>127</u> | <u>127</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | | | | | | |
| | PESO MÉDIO KG | 6,2 | 6,6 | 7,3 | 7,6 | 8,2 | 8,6 | <u>10,2</u> | <u>10,6</u> | <u>12,2</u> | <u>12,8</u> | <u>13,2</u> | <u>13,5</u> | <u>15,1</u> | | | | | | |
| | PESO DO FARDO | 790 | 833 | 927 | 970 | 1.046 | 1.089 | <u>931</u> | <u>961</u> | <u>1.110</u> | <u>1.169</u> | <u>1.199</u> | <u>823</u> | <u>921</u> | | | | | | |

Itens em negrito/sublinhado - RIR / RA

* Peso teórico

| REDONDO (mm) | | ESPESSURA DO TUBO (mm) | | | | | | | | | | | | | | | | | | | |
|--------------|----------------|------------------------|------------|------------|------------|------------|------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | BF 0,90 | ZN 0,95 | BF 1,06 | ZN 1,11 | BF 1,20 | ZN 1,25 | BF 1,50 | ZN 1,55 | BQ 1,80 | BF 1,90 | ZN 1,95 | BQ 2,00 | BQ 2,25 | BQ 2,65 | ZN 2,70 | BQ 3,00 | BQ 3,35 | BQ 3,75 | BQ 4,25 | BQ 4,75 |
| 48,30 | TOTAL BARRAS | 127 | 127 | 127 | 127 | 127 | 127 | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | |
| | PESO MÉDIO KG | 6,3 | 6,7 | 7,4 | 7,8 | 8,4 | 8,7 | <u>10,4</u> | <u>10,7</u> | <u>12,4</u> | <u>13,0</u> | <u>13,4</u> | <u>13,7</u> | <u>15,3</u> | <u>17,9</u> | <u>18,2</u> | <u>20,1</u> | <u>22,3</u> | <u>24,7</u> | | |
| | PESO DO FARDOS | 802 | 845 | 941 | 984 | 1.062 | 1.105 | <u>945</u> | <u>976</u> | <u>1.127</u> | <u>1.187</u> | <u>1.217</u> | <u>836</u> | <u>935</u> | <u>1.092</u> | <u>1.111</u> | <u>1.227</u> | <u>824</u> | <u>915</u> | | |
| 50,80 | TOTAL BARRAS | 91 | 91 | 91 | 91 | 91 | 91 | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>91</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>37</u> | <u>37</u> | <u>37</u> | | |
| | PESO MÉDIO KG | 6,6 | 7,0 | 7,8 | 8,2 | 8,8 | 9,2 | <u>10,9</u> | <u>11,3</u> | <u>13,1</u> | <u>13,7</u> | <u>14,1</u> | <u>14,4</u> | <u>16,2</u> | <u>18,9</u> | <u>19,2</u> | <u>21,2</u> | <u>23,5</u> | <u>26,1</u> | | |
| | PESO DO FARDOS | 605 | 638 | 710 | 743 | 801 | 834 | <u>996</u> | <u>1028</u> | <u>1188</u> | <u>1251</u> | <u>1283</u> | <u>1314</u> | <u>986</u> | <u>1152</u> | <u>1172</u> | <u>1294</u> | <u>870</u> | <u>966</u> | | |
| 57,15 | TOTAL BARRAS | 91 | 91 | 91 | 91 | 91 | 91 | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | | |
| | PESO MÉDIO KG | 7,5 | 7,9 | 8,8 | 9,2 | 9,9 | 10,3 | <u>12,4</u> | <u>12,8</u> | <u>14,7</u> | <u>15,5</u> | <u>15,9</u> | <u>16,3</u> | <u>18,3</u> | <u>21,4</u> | <u>21,8</u> | <u>24,0</u> | <u>26,7</u> | <u>29,6</u> | | |
| | PESO DO FARDOS | 682 | 719 | 801 | 838 | 904 | 941 | <u>753</u> | <u>778</u> | <u>899</u> | <u>948</u> | <u>972</u> | <u>996</u> | <u>1.115</u> | <u>1.304</u> | <u>805</u> | <u>889</u> | <u>987</u> | <u>1.096</u> | | |
| 58,74 | TOTAL BARRAS | 61 | 61 | 61 | 61 | 61 | 61 | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>62,5</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | | |
| | PESO MÉDIO KG | 7,7 | 8,1 | 9,0 | 9,5 | 10,2 | 10,6 | <u>12,7</u> | <u>13,1</u> | <u>15,2</u> | <u>16,0</u> | <u>16,4</u> | <u>16,8</u> | <u>18,8</u> | <u>22,0</u> | <u>22,4</u> | <u>24,7</u> | <u>27,5</u> | <u>30,5</u> | | |
| | PESO DO FARDOS | 470 | 496 | 552 | 577 | 623 | 649 | <u>775</u> | <u>800</u> | <u>925</u> | <u>975</u> | <u>1.000</u> | <u>1.024</u> | <u>1.147</u> | <u>1.375</u> | <u>828</u> | <u>916</u> | <u>1.016</u> | <u>1.129</u> | | |
| 60,30 | TOTAL BARRAS | 61 | 61 | 61 | 61 | 61 | 61 | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | |
| | PESO MÉDIO KG | 7,9 | 8,3 | 9,3 | 9,7 | 10,5 | 10,9 | <u>13,1</u> | <u>13,5</u> | <u>15,6</u> | <u>16,4</u> | <u>16,8</u> | <u>17,3</u> | <u>19,3</u> | <u>22,6</u> | <u>23,0</u> | <u>25,4</u> | <u>28,2</u> | <u>31,4</u> | <u>35,2</u> | <u>39,0</u> |
| | PESO DO FARDOS | 483 | 509 | 567 | 593 | 640 | 666 | <u>796</u> | <u>822</u> | <u>950</u> | <u>1.002</u> | <u>1.027</u> | <u>1.052</u> | <u>1.179</u> | <u>1.379</u> | <u>1.404</u> | <u>941</u> | <u>1.045</u> | <u>1.161</u> | <u>1.304</u> | <u>1.445</u> |
| 63,50 | TOTAL BARRAS | 61 | 61 | 61 | 61 | 61 | 61 | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>61</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> | <u>37</u> |
| | PESO MÉDIO KG | 8,3 | 8,8 | 9,8 | 10,2 | 11,1 | 11,5 | <u>13,8</u> | <u>14,2</u> | <u>16,4</u> | <u>17,3</u> | <u>17,8</u> | <u>18,2</u> | <u>20,4</u> | <u>23,9</u> | <u>24,3</u> | <u>26,9</u> | <u>29,8</u> | <u>33,2</u> | <u>37,3</u> | <u>41,3</u> |
| | PESO DO FARDOS | 509 | 536 | 597 | 625 | 675 | 702 | <u>839</u> | <u>867</u> | <u>1.002</u> | <u>1.056</u> | <u>1.083</u> | <u>1.110</u> | <u>1.244</u> | <u>883</u> | <u>899</u> | <u>994</u> | <u>1.103</u> | <u>1.227</u> | <u>1.379</u> | <u>1.528</u> |

Itens em negrito/sublinhado - RIR / RA

* Peso teórico

| REDONDO (mm) | | ESPESSURA DO TUBO (mm) | | | | | | | | | | | | | | | | | | | | |
|--------------|---------------|------------------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------|
| | | BF 0,90 | ZN 0,95 | BF 1,06 | ZN 1,11 | BF 1,20 | ZN 1,25 | BF 1,50 | ZN 1,55 | BQ 1,80 | BF 1,90 | ZN 1,95 | BQ 2,00 | BQ 2,25 | BQ 2,65 | ZN 2,70 | BQ 3,00 | BQ 3,35 | BQ 3,75 | BQ 4,25 | BQ 4,75 | |
| 76,20 | TOTAL BARRAS | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 19 | 19 | 19 | 19 |
| | PESO MÉDIO KG | 10,0 | 10,6 | 11,8 | 12,3 | 13,3 | 13,9 | 16,6 | 17,1 | 19,8 | 20,9 | 21,4 | 22,0 | 24,6 | 28,8 | 29,4 | 32,5 | 36,1 | 40,2 | 45,2 | 50,2 | |
| | PESO DO FARDO | 371 | 391 | 436 | 456 | 493 | 513 | 613 | 633 | 733 | 773 | 793 | 812 | 911 | 1.067 | 1.086 | 1.202 | 1.336 | 764 | 860 | 954 | |
| 88,90 | TOTAL BARRAS | | | | | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 19 | 19 | 19 | 19 | 19 | |
| | PESO MÉDIO KG | | | | | 15,6 | 16,2 | 19,4 | 20,0 | 23,2 | 24,5 | 25,1 | 25,7 | 28,8 | 33,8 | 34,4 | 38,1 | 42,4 | 47,2 | 53,2 | 59,1 | |
| | PESO DO FARDO | | | | | 576 | 600 | 718 | 741 | 858 | 905 | 928 | 952 | 1.067 | 1.251 | 1.274 | 724 | 806 | 898 | 1.011 | 1.124 | |
| 101,60 | TOTAL BARRAS | | | | | | | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | |
| | PESO MÉDIO KG | | | | | | | 22,2 | 22,9 | 26,6 | 28,0 | 28,8 | 29,5 | 33,1 | 38,8 | 39,5 | 43,8 | 48,7 | 54,3 | 61,2 | 68,1 | |
| | PESO DO FARDO | | | | | | | 422 | 436 | 505 | 533 | 546 | 560 | 628 | 737 | 751 | 832 | 925 | 1.032 | 1.163 | 1.293 | |
| 114,30 | TOTAL BARRAS | | | | | | | | | | | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | |
| | PESO MÉDIO KG | | | | | | | | | | | 33,2 | 37,3 | 43,8 | 44,6 | 49,4 | 55,0 | 61,3 | 69,2 | 77,0 | | |
| | PESO DO FARDO | | | | | | | | | | | 631 | 709 | 832 | 847 | 939 | 1.045 | 1.166 | 1.315 | 1.463 | | |
| 127,00 | TOTAL BARRAS | | | | | | | | | | | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | | |
| | PESO MÉDIO KG | | | | | | | | | | | 37,0 | 41,5 | 48,8 | 49,7 | 55,0 | 61,3 | 68,4 | 77,2 | 85,9 | | |
| | PESO DO FARDO | | | | | | | | | | | 703 | 789 | 926 | 944 | 1.046 | 1.165 | 1.299 | 1.467 | 1.633 | | |

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