## Espárragos ASTM A193 B7

Se utilizan para asegurar piezas acopladas que no deban desplazarse ni girar. Roscados (BSPT) en ambos extremos.

| Diámetro | 150 | 300 | 600 | 900 | 1500 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1 / 2 \prime$ | 1/2" $\times 2$ 1/2" | 1/2" $\times 23 / 4$ " | 1/2" X $31 / 4$ " | 3/4" X 4 1/4" | 3/4" X 4 1/4" |
| $3 / 4$ | $1 / 2^{\prime \prime} \times 21 / 2^{\prime \prime}$ | 5/8" $\times 3$ " | 5/8" $\times 31 / 2^{\prime \prime}$ | 3/4" $\times 4$ 1/2" | 3/4" X 4 1/2" |
| 1" | 1/2" $\times 23 / 4{ }^{\prime \prime}$ | 5/8" $\times 31 / 4 "$ | 5/8" $\times 3$ 3/4" | 7/8" $\times 5$ " | $7 / 8{ }^{\prime \prime} \times 5{ }^{\prime \prime}$ |
| $11 / /^{\prime \prime}$ | 1/2" $\times 23 / 4$ " | $5 / 8 " \times 31 / 4 "$ | 5/8" $\times 4$ " | 7/8" X 5" | 7/8" $\times 5$ " |
| $11 / 2^{\prime \prime}$ | $1 / 2^{\prime \prime} \times 3$ " | $3 / 4 " \times 3$ 3/4" | 3/4" $\times 41 / 4$ " | 1"X $51 / 2^{\prime \prime}$ | 1"X $51 / 2^{\prime \prime}$ |
| 2" | 5/8" $\times 31 / 4{ }^{\prime \prime}$ | 5/8" $\times 3$ 1/2" | 5/8" X $41 / 4$ " | 7/8" $\times 5$ 3/4" | 7/8" $\times 5$ 3/4" |
| 21/2" | 5/8" $\times 31 / 2^{\prime \prime}$ | 3/4" $\times 4$ " | $3 / 4 " \times 43 / 4 "$ | 1" $\times 61 / 4$ " | 1" $\times 61 / 4$ " |
| 3" | 5/8" $\times 3$ 3/4" | $3 / 4$ " $\times 41 / 4$ " | 3/4" X 5" | 7/8" X 5 3/4" | $11 / 8{ }^{\prime \prime} \times 7$ |
| 4" | 5/8" $\times 3$ 3/4" | 3/4" $\times 4$ 1/2" | 7/8" $\times 5$ 3/4" | 11/8" $\times 63 / 4{ }^{\prime \prime}$ | 11/4" $\times 73 / 4$ " |
| 5" | 3/4" $\times 4$ " | 3/4" $\times 43 / 4$ " | $1{ }^{\prime \prime} \times 61 / 2^{\prime \prime}$ | $11 / 4^{\prime \prime} \times 71 / 2^{\prime \prime}$ | $11 / 2^{\prime \prime} \times 93 / 4^{\prime \prime}$ |
| $6 "$ | 3/4" $\times 4$ " | 3/4" X 5" | 1"X63/4" | $11 / 8{ }^{\prime \prime} \times 73 / 4$ " | $13 / 8{ }^{\prime \prime} \times 101 / 4^{\prime \prime}$ |
| $8 \prime$ | 3/4" $\times 41 / 4$ " | 7/8" $\times 5$ 1/2" | 11/8" $\times 73 / 4{ }^{\prime \prime}$ | $13 / 8{ }^{\prime \prime} \times 83 / 4{ }^{\prime \prime}$ | $15 / 8{ }^{\prime \prime} \times 111 / 2^{\prime \prime}$ |
| 10" | 7/8" $\times 43 / 4$ " | 1 " 6 1/4" | $11 / 4{ }^{\prime \prime} \times 81 / 2^{\prime \prime}$ | $13 / 8{ }^{\prime \prime} \times 9$ 1/4" | $17 / 8{ }^{\prime \prime} \times 131 / 4^{\prime \prime}$ |
| 12" | 7/8" X 4 3/4" | 11/8" $\times 63 / 4 "$ | $11 / 4{ }^{\prime \prime} \times 83 / 4 "$ | $13 / 8{ }^{\prime \prime} \times 10^{\prime \prime}$ | 2" X 14 3/4" |
| 14" | $1{ }^{\prime \prime} \times 5$ 1/4" | $11 / 8{ }^{\prime \prime} \times 7$ " | $13 / 8^{\prime \prime} \times 91 / 4^{\prime \prime}$ | 11/2" $\times 103 / 4^{\prime \prime}$ | $21 / 4{ }^{\prime \prime} \times 16^{\prime \prime}$ |
| $16^{\prime \prime}$ | 1"X 5 1/2" | 11/4" $\times 71 / 2^{\prime \prime}$ | 11/2" $\times 10$ | $15 / 8{ }^{\text {" }}$ X $111 / 2^{\prime \prime}$ | $21 / 2^{\prime \prime} \times 171 / 2^{\prime \prime}$ |
| 18" | 11/8" $\times 6$ " | 11/4" $\times 73 / 4{ }^{\prime \prime}$ | $15 / 8{ }^{\prime \prime} \times 103 / 4 "$ | 17/8" $\times 123 / 4^{\prime \prime}$ | $23 / 4{ }^{\prime \prime} \times 191 / 2^{\prime \prime}$ |
| 20" | 11/8" X $61 / 4{ }^{\prime \prime}$ | $11 / 4{ }^{\prime \prime} \times 81 / 4 "$ | 15/8" $\times 111 / 2^{\prime \prime}$ | 2" X $131 / 2^{\prime \prime}$ | 3" $\times 21$ " |
| 24" | 11/4" $\times 7$ " | $11 / 2^{\prime \prime} \times 91 / 4 "$ | 17/8" $\times 13^{\prime \prime}$ | $21 / 2^{\prime \prime} \times 171 / 4^{\prime \prime}$ | $31 / 2^{\prime \prime} \times 241 / 2^{\prime \prime}$ |
| 26" | 11/4" $\times 81 / 2^{\prime \prime}$ | 15/8" X $101 / 2^{\prime \prime}$ | 17/8" $\times 141 / 4{ }^{\prime \prime}$ | 23/4" $\times 183 / 4^{\prime \prime}$ | $23 / 4$ " $\times 183 / 4{ }^{\prime \prime}$ |
| 28" | 11/4" $\times 83 / 4$ " | $15 / 8{ }^{\prime \prime} \times 11^{\prime \prime}$ | 2" X 14 1/4" | $3 " \times 183 / 4 "$ | $3^{\prime \prime} \times 183 / 4^{\prime \prime}$ |
| 30" | $11 / 4$ " ${ }^{\text {9" }}$ | 13/4" X $111 / 2^{\prime \prime}$ | 2" X 15 1/4" | 3" X 20 1/2" | 3" $\times 201 / 2^{\prime \prime}$ |
| 32 " | 11/2" X 10" | 17/8" $\times 121 / 4$ " | 2" X $161 / 4$ " | $31 / 4$ " $\times 213 / 4$ " | $31 / 4$ " $213 / 4$ " |

