



Tapping Lubricant

- This proven tapping lubricant is made from a unique blend of synthetic additives for use on all metals
- Water-based formula for easy clean-up
- Safe for all materials
- Does not contain 1,1,1 trichloroethane
- No mineral oils or solvents
- No oily residue
- 100% safe

| Description | Code |
|---------------|--------|
| 16 oz. bottle | 219002 |

Combined Taps & Drills

High Speed Steel – 2 Flute – Ground Thread



- Designed to drill and tap through-holes in a single pass up to depths that are two times the tap diameter
- May be used on multiple spindle heads with reversing mechanisms

Machine Screw Sizes

| Nominal Size | Drill Size (Inch) | Thread Length (Inch) | Overall Length (Inch) | Code |
|--------------|-------------------|----------------------|-----------------------|--------|
| 4-40 | 0.0910 | 3/8 | 1-7/8 | 311537 |
| 4-48 | 0.0945 | 11/32 | 1-7/8 | 311538 |
| 5-40 | 0.1040 | 13/32 | 1-15/16 | 311540 |
| 6-32 | 0.1115 | 15/32 | 2 | 311541 |
| 6-40 | 0.1170 | 7/16 | 2 | 311543 |
| 8-32 | 0.1375 | 33/64 | 2-1/8 | 311544 |

| Nominal Size | Drill Size (Inch) | Thread Length (Inch) | Overall Length (Inch) | Code |
|--------------|-------------------|----------------------|-----------------------|--------|
| 10-24 | 0.1545 | 5/8 | 2-3/8 | 311545 |
| 10-32 | 0.1635 | 9/16 | 2-3/8 | 311546 |
| 12-24 | 0.1805 | 11/16 | 2-3/8 | 311547 |
| 12-28 | 0.1860 | 21/32 | 2-3/8 | 311548 |

Fractional Sizes

| Nominal Size | Drill Size (Inch) | Thread Length (Inch) | Overall Length (Inch) | Code |
|--------------|-------------------|----------------------|-----------------------|--------|
| 1/4-20 | 0.2080 | 13/16 | 2-1/2 | 311549 |
| 1/4-28 | 0.2200 | 23/22 | 2-1/2 | 311550 |
| 5/16-18 | 0.2660 | 31/32 | 2-27/32 | 311551 |
| 5/16-24 | 0.2770 | 7/8 | 2-27/32 | 311552 |
| 3/8-16 | 0.3225 | 1-1/8 | 3-3/8 | 311553 |
| 3/8-24 | 0.3395 | 1 | 3-3/8 | 311554 |

| Nominal Size | Drill Size (Inch) | Thread Length (Inch) | Overall Length (Inch) | Code |
|--------------|-------------------|----------------------|-----------------------|--------|
| 7/16-14 | 0.3770 | 1-5/16 | 3-3/4 | 311555 |
| 7/16-20 | 0.3955 | 1-3/16 | 4-3/4 | 311556 |
| 1/2-13 | 0.4350 | 1-15/32 | 4-1/16 | 311557 |
| 1/2-20 | 0.4580 | 1-15/16 | 4-1/16 | 311558 |

Metric Sizes

| Nominal Size | Drill Size (Inch) | Thread Length (Inch) | Overall Length (Inch) | Code |
|--------------|-------------------|----------------------|-----------------------|--------|
| M3 x 0.50 | M2.50 | 13/32 | 1-15/16 | 311559 |
| M4 x 0.70 | M3.30 | 1/2 | 2-1/8 | 311560 |
| M5 x 0.80 | M4.20 | 5/8 | 2-3/8 | 311561 |
| M6 x 1.00 | M5.00 | 25/32 | 2-1/2 | 311562 |

| Nominal Size | Drill Size (Inch) | Thread Length (Inch) | Overall Length (Inch) | Code |
|--------------|-------------------|----------------------|-----------------------|--------|
| M8 x 1.25 | M6.75 | 15/16 | 2-27/32 | 311563 |
| M10 x 1.50 | M8.50 | 1-1/16 | 3-3/8 | 311564 |
| M12 x 1.75 | M10.25 | 1-3/8 | 4-1/16 | 311565 |