# Tips & Technical Information

**CURVED**
12-1401-07

**STRAIGHT**
129-124-04

**TWIN FLAME**
12-1402-04

## Sapphire Tips

Due to the extraordinarily small orifice diameter of tips sizes #2-3, tips are fitted with a laser drilled synthetic sapphire to assure accurate gas flow and consistent flame characteristics.

**ALL TIPS ARE 100% FLAME TESTED**

**Flexible Tip Extension**
***For Customizing Angle And Distance From Handle***
**Stock No.**
2327-3SP
**Length**
3″ (76mm)

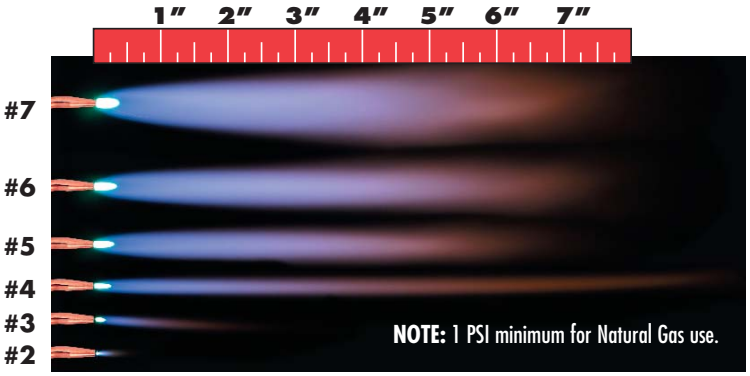
| Size | CURVED Stock No. | STRAIGHT Stock No. | Use With Oxygen and: | Orifice Dia. | Drill Size | Gas Pressures (PSI) | | Gas Consumption (CFH) | | BTU/hr |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Oxygen | Fuel | Fuel | Oxygen | |
| #2 | 12-1401-02 | N/A | Acetylene, Hydrogen only | .006 | 97 | 2 | 2 | .09 | .11 | 130 |
| #3 | 12-1401-03 | N/A | Any Fuel Gas | .011 | 85 | 4 | 4 | .78 | .94 | 1,150 |
| #4 | 12-1401-04 | 129-124-04 | | .020 | 76 | 5 | 5 | 1.57 | 1.88 | 2,300 |
| #5 | 12-1401-05 | N/A | | .029 | 69 | 6 | 6 | 2.58 | 3.1 | 3,800 |
| #6 | 12-1401-06 | N/A | | .037 | 63 | 6 | 6 | 4.48 | 5.38 | 6,585 |
| #7 | 12-1401-07 | N/A | | .047 | 56 | 8 | 8 | 6.27 | 7.52 | 9,200 |

| Size | TWIN FLAME Stock No. | Use With Oxygen and: | Orifice Dia. | Drill Size | Gas Pressures (PSI) | | Gas Consumption (CFH) | | BTU/hr |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | Oxygen | Fuel | Fuel | Oxygen | |
| #4 | 12-1402-04 | Any Fuel Gas | .020 | 76 | 5 | 5 | 2.91 | 3.49 | 4,300 |
| #5 | 12-1402-05 | | .029 | 69 | 6 | 6 | 4.70 | 5.64 | 6,900 |
| #6 | 12-1402-06 | | .037 | 63 | 6 | 6 | 6.50 | 7.80 | 9,550 |

**NOTE:** All values determined using acetylene gas.

**TWIN FLAME**

**APPROX. FLAME SIZES AT NEUTRAL MIXTURE (OXYGEN/ ACETYLENE)**



**HEATING TIP (Rosebud)**

## Heating Tips

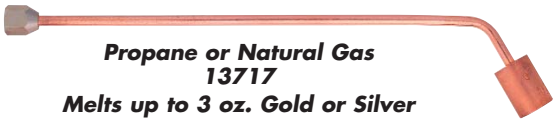
| Stock No. | Fuel | Gas Pressures (PSI) | | Length | Gas Consumption (CFH) | | Rosebud Flame BTU/hr |
|---|---|---|---|---|---|---|---|
| | | Oxygen | Fuel Gas | | Fuel | Oxygen | |
| 13-662 | Acetylene, Hydrogen Propylene, MAPP® 8,000 BTU Output | 14 | 10 | 6″ (153mm) | 4.58 | 5.51 | 7,050 |
| 13717 | Propane 5,000 BTU | 14 | 10 | 6″ (153mm) | 5.12 | 12.80 | 12,800 |
| | Natural Gas 2,400 BTU | 7 | 5 | | | | |

***Tip Ends Actual Size***

***Acetylene***

***Propane***

***Acetylene***
***13-662***
***Melts up to 3 oz. Gold or Silver***



***Propane or Natural Gas***
***13717***
***Melts up to 3 oz. Gold or Silver***