



**SW** Heavy Duty Welding & Brazing Tips  
**MW** Medium Duty Welding & Brazing Tips  
**AW** Standard Duty Welding & Brazing Tips (Airline™)

## SMITH "SOFT FLAME" - Makes Welding Easier

Smith welding tips are quality engineered to provide easy handling, high performance and added protection in welding, brazing and soldering operations.

- 1 "Soft Flame" - Makes Welding Easier**  
 Smith "soft flame" welding tips provide concentrated heat for better "puddle" control — the turbulent-free flame eliminates puddle chasing. Soft flame provides deep, even penetration without burning through base metal for strong, dependable welds. Molten metal is protected from atmospheric oxidation by smooth, even flame envelope.
- 2 Slip-In Tips - Permit 360° Turn For Convenient Positioning**  
 Tip may be rotated eliminating hose resistance during operation. "Slip-In" tips can be changed in just seconds. Hand tighten, no wrench needed. "O" rings provide gas tight seal. Keeps gases separate until they mix in the tip.
- 3 "O" Ring Seals - Highly Reliable Sealing**  
 "O" rings provide gas tight seal with no metal seating surface to damage if dropped. Gases kept separate until entering the mixing chamber.
- 4 Heavy Wall Copper - Provides Longer Life**  
 The heavy wall copper gives greater resistance to reflected heat, permits cooler operation, dissipates more heat than thin wall copper. Heat absorbing tips provide longer life, and the long straight-away design permits tip refacing after excessive wear or abuse.

## 100% TESTING - ASSURED PERFORMANCE

Each tip is individually tested on Smith designed automatic testing machines and must pass stringent requirements for flame characteristics, gas flow and resistance to backfire or flashback.

### FUEL GAS CHART

Generic Name	Trade Name
Acetylene	—
Methylacetylene-Propadiene (MPS)	MAPP®
Propane, Propane-Based Mixtures	Propane-butane, Flamex, Acetogen, Chem-O-Lene, FL. Industrial Gas, Hy-Temp, Fuel Gas, I.G. Gas, Chem-Gas, Lingas, Chemtane
Propylene	HPG, Apachi, B-Plus, Gulf HP Gas, HEF, B.T.U., Liquifuel
Natural Gas (Methane)	Natural Gas, City Gas

## MANIFOLDING CYLINDERS

When required flows (cubic feet per hour - SCFH) exceed the recommended withdrawal rate from one cylinder then additional cylinders must be manifolded to provide safe and efficient operation. Acetylene must not be withdrawn at more than 1/7 of the cylinder capacity (47 SCFH for a 330 cu. ft. cylinder). Consult your gas supplier for manifolding instructions for the gases and cylinders supplied to you.

Tips