



... Why Fabricators are Changing to Propylene?

- SAFER.. Reduced chance of flashbacks, more stable
- 50%.. Reduction in cost over Acetylene
- 50%.. Reduction in gas pressure Vs Propane... less gas
- 80% less cylinder change outs.. (1 -105 lb Propylene Vs 5 - 330 cu ft. Acetylene)
- QUALITY CUTS.... Less grinding, better joint fit-up
- HIGHER Vapor Pressure in colder temperatures
- FASTER Cutting Speeds....productivity improvement
- LONGER TIP LIFE... less change out time



Safety Comparison:

COMPARISON	PROPYLENE	ACETYLENE
Flammability Range	1 - 11% in air	2.5 - 100% in air
Cyl. Net Contents	63 Lbs or 105	20 - 30 lbs
1 Propylene Cyl. Vs 5 Acetylene Cyl.		
Cyl. Tare Weight	40 - 70	100 - 200
Flashback Potential	Minimal	Dangerous
Operating Pressure	1-133 psi	1-15 psi
Gas Stability	20 X More Stable	Unstable
	No solvent or filler	Dissolved in acetone, with filler



These properties translate into real safety advantages for personnel involved with Propylene as a fuel gas versus acetylene. 1 -105 lb Propylene Cyl. Is equivalent to 5 - 330 cuft Acetylene Cyls. Which reduces the labor of cylinder change outs by 80%

Gas stability issues with Acetylene prevent users from being able to increase pressure in acetylene applications i.e.(Heating) causing insufficient pressures for heating heads resulting in dangerous flashbacks while with Propylene this is a minimal concern.

**No additional equipment required.....
Simply change the Gas and the Tips...**



... Compare the difference

Cost Comparison:

Calculate your cost of Acetylene Vs Propylene:

Acetylene Cost @ _____ per 100 cu.ft. X 3.3 (330 cu.ft./cyl.)

= \$ _____ per cylinder X 5 cylinders

= **Acetylene cost \$ _____.**

Propylene Cost @ _____ per lb. X 105 lb cylinder

= **Propylene Cost \$ _____.**

Your Savings = \$ _____



(1) 105 lb Propylene Cyl. (5) 360 cu. Ft. Acetylene Cyls
105 lbs of product per cyl. 21 lbs of product per cyl.

Propylene Cutting, Heating & Brazing Tips make the Difference.....

Optimize your Performance with
Propylene Cutting & Heating
Equipment

GAS INNOVATIONS
Propylene Tips

Standard
Propylene Tip

Thicker Seat locking
= less wear & distortion

Double Seat Locking
= longer seating tolerance and less chance of leaks

Solid Trillium Copper Shell Back Drilled (not Tube Stock)
= Best Thermal Properties
Thicker Walls
= 3 to 5 x Longer Shell Life
Better Protection for Brass Splines

18 Splines vs. 12
= Faster Preheat Times
Square Groove Splines
= Increased Performance
Longer Splines
= Focused Point of Flame
Length of Velocity Tube is 15 X diameter of cutting Oxygen orifice
= consistent laminar flow
Narrow Kerf with, greater stand-off distance
Tip-to-work distance
greater oxidation of steel
faster cuts longer tip life

GAS INNOVATIONS Propylene Tip
-Maximum attachment of Hydrocarbons
-Hotter flame temperatures
-Cleaner Burn
-Longer tip life
-Increased production
-Increased profitability

18 Preheats

**Complete Cylinder Selection
To meet your needs....**



Faster preheat times, Stainless inserts for longer tip life