

Hand & Machine Cutting



- 18 fine splines for faster preheat
- Chrome plated for longer shell life
- Stainless Cutting Oxygen Insert for high speed Hand or Machine Cutting

- Up to 6+ inches stand-off distance while cutting with reduced Kerf width.
- 3 to 5 times longer tip life.

Ripper reduces smoke, cuts faster, lasts longer



- Coarse splines for faster preheat times Easily cleaned Stainless insert. 3 to 6" standoff rips thru scrap steel, paint, rust, with narrow kerf width

- Excellent for beveling
- Used with Propylene. Reduced smoke and fume levels
- Environmentally friendly, reduced fuel costs

Multipurpose Gouger

Heating Heads



- Performs as 3 different gougers simply by changing the oxygen pressure.

- Heating Head BTU output ranges from 120,000 to 1.2 million BTUs

Propylene is a dominant fuel gas used in the U.S metal working market. It is the most efficient fuel being used for cutting, heating, gouging, brazing, flame hardening, and metalizing.

WHY?

Because Propylene provides slag free cuts, faster preheat, reduced flashback, less handling, more productive cutting speeds and it costs less than acetylene! Increased safety, increased production, increased quality cuts, at a substantial cost savings.

FASTER

- Faster Cutting Speeds And Heating Times
- Quality Cuts = Less Grinding
- 80% Less Cylinder Change Outs

SAFER

- Lower Explosive Limits Than Acetylene
- Does Not Become Unstable At Higher PSI
- 50% Reduction In Psi Compared To Propane

CHEAPER

- 50% Reduction In Cost Compared To Acetylene
- Increase In Production = Lower Cost To Cut Per Linear Foot

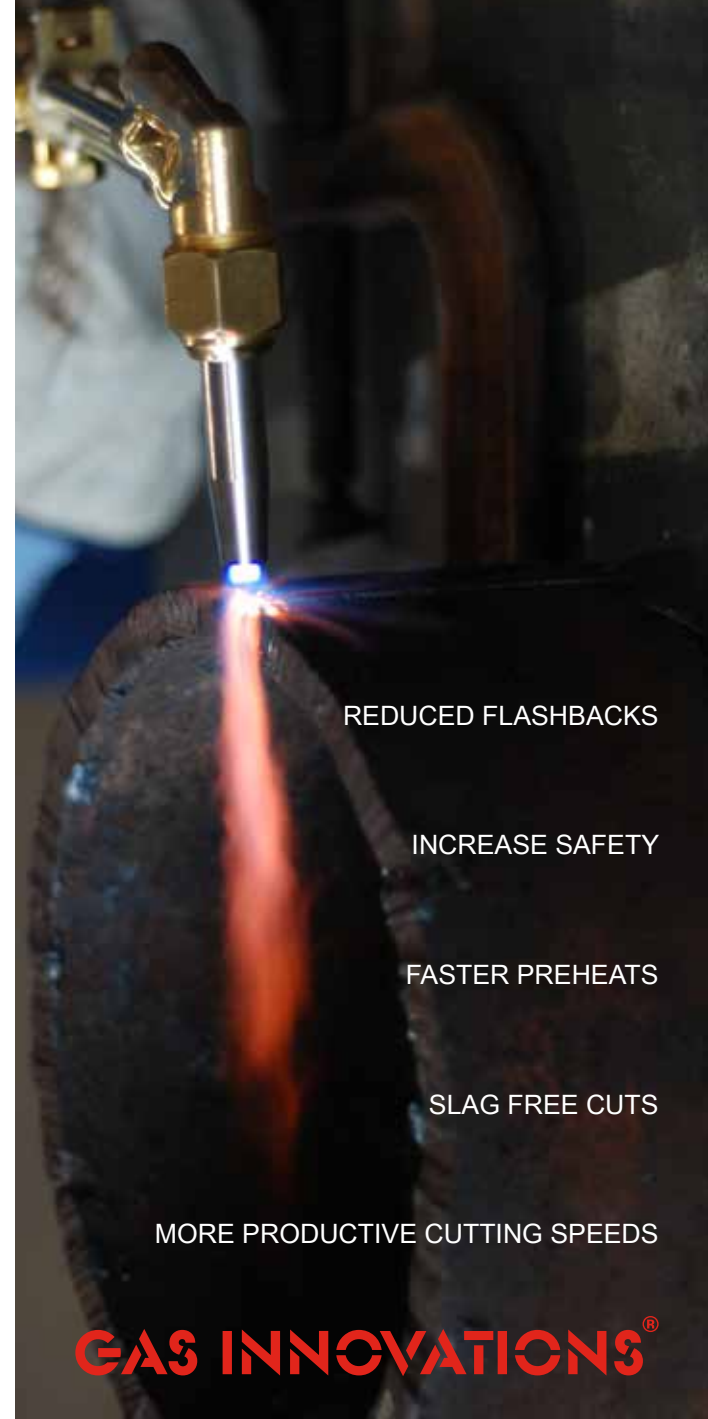
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PROPYLENE

THE INNOVATIVE FUEL



REDUCED FLASHBACKS

INCREASE SAFETY

FASTER PREHEATS

SLAG FREE CUTS

MORE PRODUCTIVE CUTTING SPEEDS

CALL YOUR LOCAL WELDING DISTRIBUTOR FOR A DEMO AND SEE THE DIFFERENCE

GAS INNOVATIONS®

GAS INNOVATIONS®

PROPYLENE IS FASTER

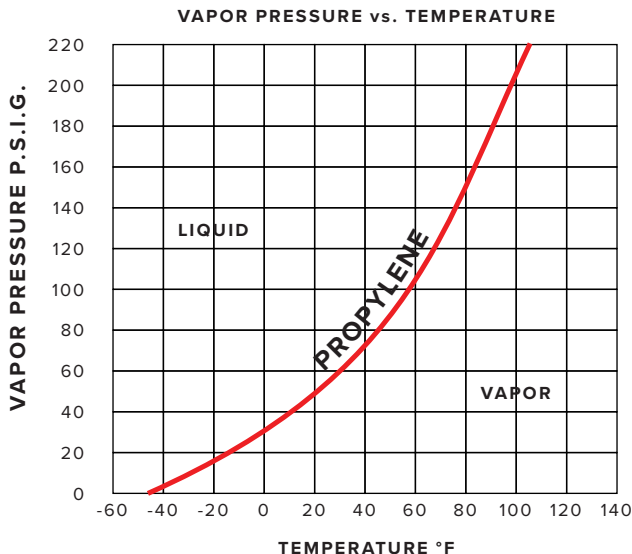
PROPYLENE IS CHEAPER

Increased cutting speed is money. In a comparison of physical constants Propylene's values surpass those of Acetylene and Natural Gas, making Propylene the fastest.

Physical Constants*

	Propylene	Acetylene	Natural Gas
UN Number	1077	1001	1971
Flame Temp °F	5312	5589	4460
Secondary Flame °F	1938	963	989
Heat of Combustion	2372	1436	910.7
Heat Value BTU/lb	21,111	20,822	21,494
Lbs/Gas Liquid	4.35	----	3.552
Explosive Limits in Air %	1.9-11.1	2.5-100	5.0-15
Max Usable Pressure @ 70°F	133 psig	15 psig	Compressor
Carbon Bond	Double	Triple	Single
Tendency to Flashback	Very Low	Extreme	Low

* DATA : CRC Handbook of Chemistry 82 Edition CGAING: Fourth Edition



Vaporization Rate of Propylene



Temperature °F

Cyl. Size	-5	10+	20+	40+	60+
27 lbs	8	16	21	32	42
63 lbs	15	29	39	58	78
105 lbs	20	40	53	80	106
435 lbs	44	89	119	178	238
1,000 gal	205	338	533	791	1190
40% Full - Multiply by 0.8					
20% Full - Multiply by 0.6					

PROPYLENE IS SAFER

Propylene is 20 times more stable than acetylene, contains no asbestos filler inside the cylinder like acetylene and has a much lower tendency to flashback than acetylene. Because of Propylene's stability it can be used at full cylinder pressure. Acetylene's maximum usable pressure is limited to 15 PSIG.*

Cylinders are lighter and a comparable size cylinder will do the work of 5 acetylene cylinders. This allows for easier handling with less change out frequency, reduced storage space, & reduced rental charges.

One Propylene Cylinder does the work of 5 Acetylene Cylinders



(1) 105 lbs
Propylene Cylinder
105 lbs. of product/cyl.

(5) 360 cu. ft
Acetylene Cylinder
20 lbs. of product/cyl.

Cost Evaluation

Acetylene @ _____ per 100 cu. ft.
x 3.3 (330 cu. ft./cyl)
=\$ _____ per cylinder
x 5 cylinders
=\$ _____

Propylene @ _____ per lbs.
x 105 lbs.
=\$ _____

Your Savings
=\$ _____

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