



# STARFLAME® C Cutting Fuel.

Burns hotter than other fuel gases so it cuts quicker.



## STARFLAME C Features and Benefits

STARFLAME C cutting fuel is more economical, environmentally friendly and safer than acetylene and other fuel gases with:

- Quicker start to steel ignition point at less cost.
- Faster cutting speeds whether beveling, making sharp turns or cutting intricate patterns.
- Quick, clean piercing.
- Minimal slag and weldback from a cleaner flame.
- Significantly less smoke and soot.
- Reduced potential for torch backfire.



**Vaporization rates:** Cubic feet per hour at 60% full cylinder

Size	Temperature:				
	-5°F (-21°C)	10°F (-12°C)	20°F (-7°C)	40°F (-4°C)	60°F (15°C)
25 lb. (11 kg)	8	15	20	31	40
60 lb. (27 kg)	14	28	37	56	75
100 lb. (45 kg)	19	38	51	77	102
435 lb. (197 kg)	42	85	114	171	228
1000 gal. (454 kg)	197	324	512	759	1142

Temperature:

40% full multiply by 0.8/20% full multiply by 0.6

### Why STARFLAME C should be your fuel gas of choice.

STARFLAME C cutting fuel is considered a “forgiving” fuel gas because good results can be achieved even when the heating or cutting tip is too close to the workpiece or distance opens up one to two inches (2.5-5 cm) during cutting. Maintaining an exact distance from the workpiece is not critical which makes STARFLAME C cutting fuel an excellent choice for hand-torch cutting.

Gas	STARFLAME C	Acetylene	Propylene	MAPP	Propane	Natural Gas
Flame temperature in oxygen (°F)	5800*	5720	5240	5340	5130	5040
BTU's per lb.	24812*	21315	21078	21240	22093	23600
Gross heating values: BTU's per ft <sup>3</sup>	2810*	1470	2371	2400	2563	1000
Primary heat: BTU's per ft <sup>3</sup>	284	507	433	517	255	11
Secondary heat: BTU's per ft <sup>3</sup>	2526*	963	1938	1889	2243	989
Theoretical oxygen ratio, by volume	3:1	2.5:1	4.5:1	4:1	5:1	2:1
Torch oxygen ratio, by volume	2:1	1.1:1	2.6:1	2.5:1	3.5:1	1.5:1
ft <sup>3</sup> /lb. of gas (or liquid)	8.83	14.50	8.89	8.85	8.62	23.6
Wt. compared to air	1.50	0.91	1.45	1.48	1.55	0.62
Liquid wt./gallon (lbs.)	4.24	-	4.35	4.77	4.23	-
Boiling Point – (°F)	-43.6	-81.0	-47.0	-54 to -10	-44.0	-250.0
Vapor pressure at 70°F (psi)	125	-	130	94	120	-
Limits of flammability in air (%)	2.3 - 9.4	2.5 - 81.0	2.4 - 10.3	3.4 - 10.8	2.2 - 9.6	5.3 - 14.0
Toxicity	Low	Low	Low	Moderate	Low	Low
Reactivity	Low	Copper & silver alloys	Low	Copper & silver alloys	Low	Low
Backfire tendency	Low	High	Slight	Moderate	Low	Low
Max pressure (psi)	Cylinder	15	Cylinder	Cylinder	Cylinder	Supply
Shock sensitivity	Stable	Unstable	Stable	Unstable	Stable	Stable

\* Effective flame and heating value characteristics based on computer image testing and comparison with other gas.

Contact Linde today: To request a STARFLAME C demo, please contact your closest store location at [www.lindecana.ca/stores](http://www.lindecana.ca/stores) or call **1-800-225-8247**.

Linde Canada Inc.

1 City Centre Drive, Suite 1200, Mississauga, Ontario, L5B 1M2

Phone 1-800-225-8247, [www.lindecana.ca](http://www.lindecana.ca)