

## POWERED APPLICATOR PROPANE USAGE GUIDE

*The following is a guide to the number of shots you will get when using 100% propane.*

Please note; butane is not as efficient as Propane and should not be used.

Propane is generally not considered to be a greenhouse gas so its emission into the atmosphere is not damaging in that regard.

However propane is flammable. You must not smoke while using this equipment or work in the vicinity of fires or heat sources.

You should only use this equipment in very well ventilated areas if you are working indoors to ensure the concentration of propane in the air will not affect the operator. If you feel any effects such as nausea, shortness of breath or giddiness, cease operation immediately and move to a well ventilated area. Do not recommence work until better ventilation is achieved in the working area.

You generally need a pressure between 40 and 80 psi for the instrument to operate properly.

You should use the lowest pressure that will administer the required dose in the required time.

As the canister is emptied of gas the canister becomes colder – this can reduce the pressure. If you notice the applicator becoming slower it may be because the gas bottle is getting colder and the pressure is dropping. Let the gas bottle warm up and see if the pressure improves. This effect is more noticeable with smaller bottles.

With smaller gas bottles the instrument may stop operating while there is still 5-10% of the gas in the bottle. That is normal and is not a problem with the instrument.

Assuming operation at **20 C (68F)** and with the equipment set at **60 psi, per 100 g of liquid propane** in your bottle you should get the following number of doses:

15 ml	670-800 doses per 100 grams of propane
25 ml	400-480 doses per 100 grams of propane
50 ml	200-240 doses per 100 grams of propane
65 ml	155-185 doses per 100 grams of propane

So, if you are using a 400 g bottle of propane at 60 psi with a 50 ml dose you would expect to get somewhere in the range of 800 to 880 doses before the pressure drops too low.

If you are using a 2 kg bottle of gas again at 60 psi and a 50 ml dose you should expect to get somewhere in the range of 4000 to 4800 doses.

These figures are approximate and should be taken as a guide only.

By keeping the instrument well lubricated and clean you will get the greatest efficiency.

**DO NOT ATTEMPT TO REFILL PROPANE BOTTLES UNLESS YOU ARE PROPERLY QUALIFIED.**

**SEEK THE ADVICE AND SERVICE OF A REGISTERED REFILLING SERVICE.**

**NEVER REFILL SINGLE USE DISPOSABLE CANISTERS.**



## NJ Phillips Powered 50ml Forestry Applicator

### Tested with 0.34kg Primus Bottle

When this applicator is fitted with the **SN540** Stream Nozzle, the average shots per 0.34kg Primus Bottle when full (375g of Gas), is 820 x 50ml dose.

When this applicator is fitted with the **WX701** Adjustable Cone Nozzle, the average shots per 0.34kg Primus Bottle when full (375g of Gas), is 800 x 50ml dose.

When this applicator is fitted with the **SXN3** Drenching Nozzle, the average shots per 0.34kg Primus Bottle when full (375g of Gas), is 850 x 50ml dose.

Dose (ml)	Average Shots
50	821
45	912
40	1026
35	1172
30	1368
25	1641
20	2052
15	2736
10	4103
5	8207

### Powered 50ml Forestry Gas Usage Test with Air Temperature 12 – 15 degrees.

\* Tested with water at 12 – 16 degrees.

\*\* Tested with water temperature around gas bottle at 20 – 35 degrees.

Nozzle	Bottle	Bottle Capacity	Dose	PSI	Temp.	Av. Shots	Litres	Equiv. 5L Container	Fill Cost \$	Cost/Shot \$
Adjustable Cone Spray SN351/SN352-WX701	0.34kg Primus	375g	50ml	50-60	Cold*	820	41	8.2	3.88	0.0047
					Warm**	850	42.5	8.5	3.88	0.0046
Forestry Stream Nozzle SN540	0.34kg Primus	375g	50ml	50-60	Cold*	840	42	8.4	3.88	0.0046
					Warm**	870	43.5	8.7	3.88	0.0045
Drench Nozzle SXN3	0.34kg Primus	375g	50ml	50-60	Cold*	840	42	8.4	3.88	0.0046
					Warm**	870	43.5	8.7	3.88	0.0045
Adjustable Cone Spray SN351/SN352-WX701	9kg	9.85kg	50ml	50-60	16 degrees	21,500	1075	215	30.00	0.0014

Tested and performed onsite at NJ Phillips Pty Limited May 2009.

