

Recipe Name: KV5R's 3-oil with Pine Tar and Citronella

% lye

Measurements: Metric

Water : Lye: 2 33.33

Estimated INS Value: 141

Type of Lye: Sodium Hydroxide

Oil						NaOH
Oil	Weight (gm)	Vol (ml)	%	INS	SAP	Weight (gm)
Soybean	300.0	323.6	38%	61	0.135	40.50
Coconut	200.0	216.5	26%	258	0.190	38.00
Palm	200.0	218.6	26%	145	0.141	28.20
Pine Tar	80.0	80.8	10%		0.043	3.44
EO, Citronella	25.0	28.5				
Total:	805.0	867.9	100%	141		110.14

Super-fatting Oil	Weight (gm)
Total:	0.0

Total Effective Lye Discount: 4.0%

	Total Grams		Kilos	Grams
Oils	780.0		0	780.0
Other Ingredients	25.0	3.1%	0	25.0
Lye	105.7	33.33%	0	105.7
Water	211.5		0	211.5
Total	1122.2		1	122.2
After Cure (5% water)	956.3		0	956.3

Notes:

Mold: Crafter's Choice 0605.
 Target 1075 ml for mold, plus some for waste.
 6 bars at 179 ml at pour, 159 g at cure.
 Bickmore Light Pine Tar: 10%. Citronella oil: 3%. 42 gm cornmeal.
 Re: <http://southernsoapers.com/news/soapmaking-tutorials/working-w-pine-tar/>

Mold Volumes	
Total Vol (at pour) (ml)	1079.4
Total Mold Vol (ml)	1075 <i>(Weigh mold with water)</i>
# Mold Cavities	6 <i>(or # loaves)</i>
Waste Vol (ml)	4.4 <i>(+ for cavity molds; -for loaves)</i>
Bar Vol (at pour) (ml)	179 <i>(or loaf vol.)</i>

Rectangular Loaf Volume Estimator

	Inches	Centimeters
Length:	6	15.24
Width:	9	22.86
Height:	1.25	3.18
Cubic:	67.5	1106.13 <i>(cc = ml = gm water)</i>
US fl.oz.	37.4	
GB fl.oz.	38.93	
Liters		1.11

Cost		
Number of Bars	6	<i>Bar</i> \$0.65
Bar Weight (cured) (gm)	159.0	<i>Batch</i> \$3.91