

Formulas



Saponification Formula

Oil Ounce x NaOH SAP Value = NaOH Required

Example:

<u>Oil</u>	<u>Ounce</u>	x	<u>NaOH SAP Value</u>	=	<u>NaOH Required</u>
Coconut	16	x	.1900	=	3.04
Lard	16	x	.1380	=	2.21
Olive	20	x	.1340	=	2.68
Soy	<u>8</u>	x	.1350	=	<u>1.08</u>
Total	60				9.01

5% Superfat:

9.01 - 5% = 8.5 (rounded down)

INS Formula

% Oil Ounce x INS Value = Total INS

Example:

Oil	Ounce	% of Total	INS Value	=	Total INS
Coconut	16	.27	x 258	=	69.66
Lard	16	.27	x 139	=	37.53
Olive	20	.33	x 109	=	35.97
Soy	<u>8</u>	<u>.13</u>	x 61	=	<u>7.93</u>
Total	60	1.0			151.09