

This sheet calculates the ratio of oil to a volume for a soap mold measured in metric values

Find the percent lye that you want to use in column "B" and the superfat value in row "9". The cell that intersects is the ratio to use.

This is based on the saponification values of the "trinity" recipe. One third each of palm, olive and coconut oil.

Different saponification values can change the results somewhat.

To convert the ratio to imperial multiply by .578 for people working in inches and ounces. (g/cm³ to oz/ci)

%Lye	Oil to volume ratio										
	Superfat										
0	1	2	3	4	5	6	7	8	9	10	
20	0.581	0.583	0.585	0.587	0.589	0.591	0.594	0.596	0.598	0.600	0.603
21	0.593	0.595	0.597	0.599	0.601	0.604	0.606	0.608	0.610	0.612	0.615
22	0.604	0.607	0.609	0.611	0.613	0.615	0.617	0.619	0.621	0.624	0.626
23	0.615	0.617	0.619	0.622	0.624	0.626	0.628	0.630	0.632	0.634	0.636
24	0.626	0.628	0.630	0.632	0.634	0.636	0.638	0.640	0.642	0.644	0.646
25	0.636	0.637	0.639	0.641	0.643	0.645	0.647	0.650	0.652	0.654	0.656
26	0.645	0.647	0.649	0.651	0.653	0.655	0.657	0.659	0.661	0.663	0.665
27	0.654	0.656	0.657	0.659	0.661	0.663	0.665	0.667	0.669	0.671	0.673
28	0.662	0.664	0.666	0.668	0.670	0.671	0.673	0.675	0.677	0.679	0.681
29	0.670	0.672	0.674	0.675	0.677	0.679	0.681	0.683	0.685	0.687	0.688
30	0.678	0.679	0.681	0.683	0.685	0.687	0.688	0.690	0.692	0.694	0.696
31	0.685	0.686	0.688	0.690	0.692	0.694	0.695	0.697	0.699	0.701	0.703
32	0.692	0.693	0.695	0.697	0.699	0.700	0.702	0.704	0.706	0.707	0.709
33	0.698	0.700	0.701	0.703	0.705	0.707	0.708	0.710	0.712	0.713	0.715
34	0.704	0.706	0.708	0.709	0.711	0.713	0.714	0.716	0.718	0.719	0.721
35	0.710	0.712	0.714	0.715	0.717	0.718	0.720	0.722	0.723	0.725	0.727
36	0.716	0.718	0.719	0.721	0.722	0.724	0.726	0.727	0.729	0.730	0.732
37	0.721	0.723	0.725	0.726	0.728	0.729	0.731	0.732	0.734	0.736	0.737
38	0.727	0.728	0.730	0.731	0.733	0.734	0.736	0.737	0.739	0.741	0.742
39	0.732	0.733	0.735	0.736	0.738	0.739	0.741	0.742	0.744	0.745	0.747
40	0.736	0.738	0.739	0.741	0.742	0.744	0.745	0.747	0.748	0.750	0.751
41	0.741	0.742	0.744	0.745	0.747	0.748	0.750	0.751	0.753	0.754	0.756
42	0.745	0.747	0.748	0.750	0.751	0.753	0.754	0.755	0.757	0.758	0.760
43	0.750	0.751	0.752	0.754	0.755	0.757	0.758	0.759	0.761	0.762	0.764
44	0.754	0.755	0.756	0.758	0.759	0.761	0.762	0.763	0.765	0.766	0.767
45	0.758	0.759	0.760	0.762	0.763	0.764	0.766	0.767	0.768	0.770	0.771
46	0.761	0.763	0.764	0.765	0.767	0.768	0.769	0.771	0.772	0.773	0.775
47	0.765	0.766	0.768	0.769	0.770	0.771	0.773	0.774	0.775	0.777	0.778
48	0.768	0.770	0.771	0.772	0.774	0.775	0.776	0.777	0.779	0.780	0.781
49	0.772	0.773	0.774	0.776	0.777	0.778	0.779	0.781	0.782	0.783	0.784
50	0.775	0.776	0.778	0.779	0.780	0.781	0.782	0.784	0.785	0.786	0.787