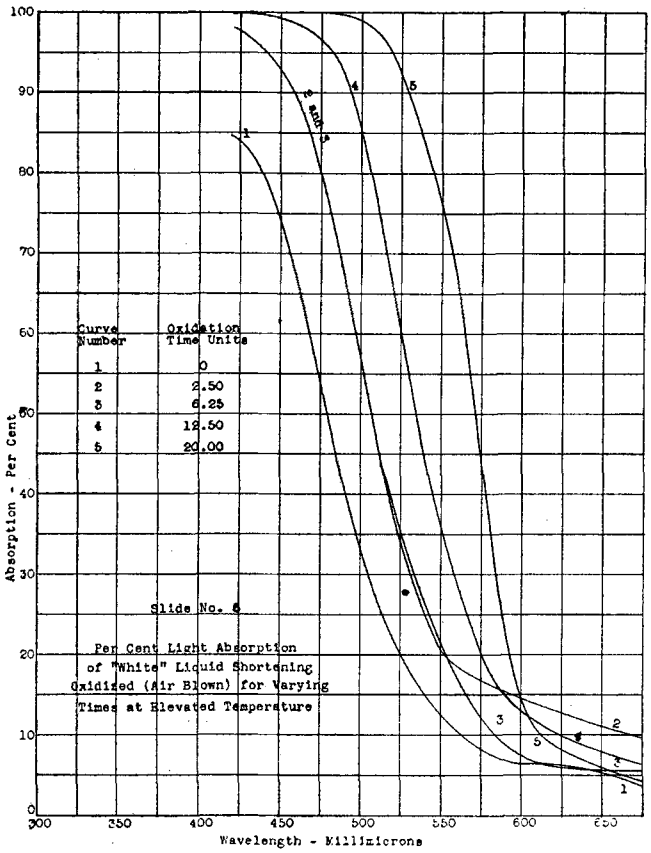

energy distribution characteristics as solar light, at least down to 325 millimicrons.

3. Light between 325 and 500 millimicrons is more effective in promoting an odor and flavor change in "white" shortenings than longer wave lengths.

4. Certain amber colored glass jars almost completely nullify the influence of light on the flavor and odor. Green and blue colored jars are helpful, but much less so than amber jars. Although appearing substantially opaque, opal glass jars are of little value in minimizing the effect of light.

5. Even strong light modifies the absorption properties of liquid "white" shortening very little in the ultraviolet and visible ranges.

6. Air-blowing liquid "white" shortening at an elevated temperature causes the absorption to increase perceptibly in the blue end of the visible range, but has no significant influence on the absorption in the ultraviolet portion.

REFERENCES

(1) Coe, Mayne R., Oil & Soap, 15: 230-6 (1938).
Coe, Mayne R., Oil & Soap, 16: 146-7 (1939).
Coe, Mayne R., Oil & Soap, 18: 241-7 (1941).
Greenbank, G. R., and Holm, G. E., Ind. and Eng. Chem., 25: 167 (1933).
Greenbank, G. R., and Holm, G. E., Ind. and Eng. Chem., 33: 1058-60 (1941).

(2) Powers, J. J., and Esselen, W. B., Jr., Ceramic Industry, 39: 36-38 (1942).

(3) Hardy, M. A., and Perrin, S. M., The Principles of Optics, 161 (1932).

Report of the A.O.C.S. Cellulose Yield Committee 1942-1943

During the past year linter samples were sent out once a month from September through March by the committee to thirteen laboratories equipped to run the cellulose yield tests. Seven sets of three to five samples each were run by nine of the laboratories. Two laboratories ran six sets and one ran five sets of samples. One laboratory ran three sets.

Results of two linter samples and one hull fibre sample were tabulated and are given below. Only those laboratories which completed all samples are included in the overall average for the year.

It is believed that sending out these samples once a month was well worth while. The check results between laboratories were surprisingly good.

Recommendations

It is recommended that samples be sent out next year at least ten months out of twelve. Also that laboratories equipped to run the yield test notify the Chairman of the Yield Committee if they would like to receive the check samples.

Lab No.	No. Sets of Samples Tested	Samples			Overall Average Year
		A Linters	B Linters	C Fibre	
1	7	79.0	73.1	69.4	73.8
2	7	78.5	72.7	68.6	73.3
3	7	78.4	72.6	68.7	73.3
4	5 (1)	78.1	72.4	68.1	
5	6 (2)	79.1	73.1	70.5	
6	7	78.7	73.2	69.7	73.9
7	7	78.2	72.6	68.9	73.2
8	7	78.6	73.6	69.7	74.0
9	7	78.7	72.9	69.5	73.7
10	7	79.1	73.5	69.9	74.2
11	7	78.6	72.8	69.4	73.6
12	6 (2)	79.0	73.5	70.5	
Avg. (seven sets only).....		78.6	73.0	69.3	73.7

(1) Two sets not run. (2) One set not run. These mills omitted from grand average.

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