

Figure 7. Inhibited natural rubber black stocks at 90°C and 1 atm. O<sub>2</sub>  
 Top, change of 300% modulus  
 Bottom, change of tensile strength

- (2) Bateman, L., Cunneen, J. I., Ford, J., *J. Chem. Soc.* **1956**, 3056.
- (3) Bateman, L., Shipley, F. W., *Ibid.*, **1955**, 1996; *Rubber Chem. and Technol.* **29**, 83 (1956).
- (4) Blum, G. W., Shelton, J. R., Winn, H., *Ind. Eng. Chem.* **43**, 464 (1951); *Rubber Chem. and Technol.* **24**, 999 (1951).
- (5) Cox, W. L., Shleton, J. R., *Ind. Eng. Chem.* **46**, 2237 (1954).
- (6) Degteva, T. G., Kuzminskii, A. S., *Zhur. Priklad. Khim.* **28**, 1314 (1955); *C. A.* **50**, 6083 (1956).
- (7) Dogadkin, B. A., Fel'dshtein, M. S., *Vulkanizits. Rezin Sbornik* **1954**, 173; *C. A.* **52**, 4228 (1958).
- (8) Dogadkin, B. A., Tarasova, Z. N., *Kolloid Zhur.*, **15**, 347 (1953); *Rubber Chem. and Technol.* **27**, 883 (1954).
- (9) Fletcher, W. P., Fogg, S. G., *Rubber J. and Internat. Plastics* **134**, 16 (1958); *Rubber Chem. and Technol.* **31**, 327 (1958); *Rubber Age* (N. Y.) **84**, 632 (1959).
- (10) Haehl, A., *Rev. gen. caoutchouc* **30**, 654 (1953); *Rubber Chem. and Technol.* **27**, 147 (1954).
- (11) Hobbs, L. M., Craig, R. G., Burkhart, C. W., *Rubber World* **136**, 675 (1957).
- (12) Kotnik, L. J., M. S. thesis, Case Institute of Technology, Cleveland, Ohio, 1948.
- (13) Kuzminskii, A. S., Bass, S. I., *Zhur. Priklad. Khim.* **27**, 189 (1954); *Rubber Chem. and Technol.* **28**, 793 (1955).
- (14) Kuzminskii, A. S., Lyubchanskaya, L. I., *Doklady Akad. Nauk S.S.S.R.* **90**, 409 (1953); *Rubber Chem. and Technol.* **29**, 530 (1956).

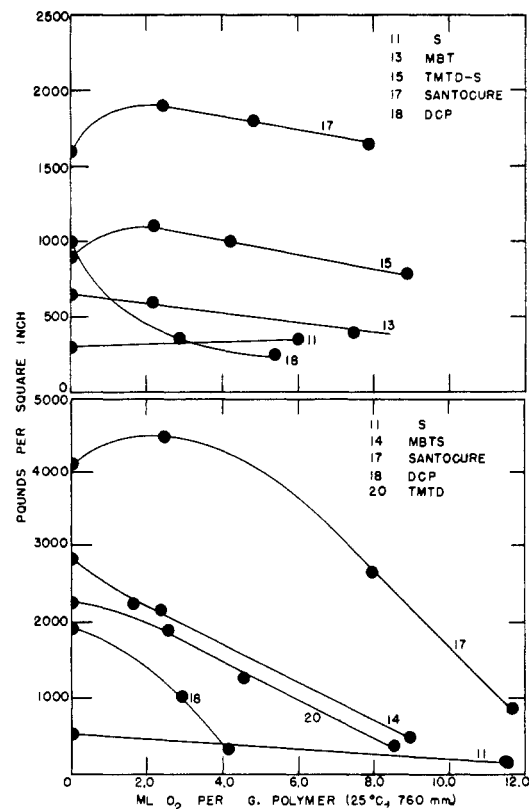


Figure 8. Natural rubber gum stocks at 90°C and 1 atm. O<sub>2</sub>  
 Top, change of 700% modulus  
 Bottom, change of tensile strength

- (15) Kuzminskii, A. S., Lyubchanskaya, L. I., *Doklady Akad. Nauk S.S.S.R.* **93**, 519 (1953); *Rubber Chem. and Technol.* **29**, 770 (1956).
- (16) LeBras, J., Danjard, J. C., Boucher, M., *J. Polymer Sci.* **27**, 529 (1958).
- (17) Ossefort, Z. T., *Rubber World* **140**, 69 (1959).
- (18) Ossefort, Z. T., Shaw, R. F., and Bergstrom, E. W., *Ibid.*, **135**, 867 (1957); **136**, 65 (1957).
- (19) Scott, J. R., *J. Rubber Research* **18**, 117 (1949); *Rubber Chem. and Technol.* **23**, 390 (1950).
- (20) Shelton, J. R., Wickham, W. T., Jr., *Ind. Eng. Chem.* **49**, 1277 (1957).
- (21) Shelton, J. R., Winn, H., *Ibid.*, **38**, 71 (1946); *Rubber Chem. and Technol.* **19**, 696 (1946).
- (22) Tikhomirova, N. H., Kuzminskii, A. S., *Zhur. Fiz. Khim.* **29**, 1278 (1955); *Rubber Chem. and Technol.* **30**, 61 (1956).

RECEIVED for review September 4, 1958. Accepted June 2, 1959.

#### CORRECTION

In "Effect of Molecular Structure on Burning Velocity" [G. J. Gibbs and H. F. Calcote, *J. Chem. Eng. Data* **4**, 227 (1959)] Equation 3 should be two equations,

$$C_1 = 4/\pi D^2$$

and

$$C_2 = 2/\pi D^4$$