

Standardisation of the Methods of Testing the Fastness of Dyed Materials*

THE Report of the Fastness Committee of the Society of Dyers and Colourists deals with three fastness requirements, *viz.* (i) fastness to light; (ii) fastness to perspiration; (iii) fastness to washing.

FASTNESS TO LIGHT.—The Committee adheres to the international practice of employing 8 grades of fastness to light (*cf.* ANALYST, 1934, 59, 784). The standard dyes selected are as follows:

Red Standards.—(2) 0·5 per cent. Acid Magenta IIS (I.C.I.) (C.I.692); (3) 0·5 per cent. Polar Red 3B Conc. (Gy.); (4) 1 per cent. Cloth Fast Red R (S.C.I.); (5) 1 per cent. Alizarine Rubinole GW (I.G.) (C.I.1091); (6) 1 per cent. Kiton Fast Red 4BL (S.C.I.); (7) 1·2 per cent. Alizarine Orange A425 Powder (I.C.I.) on zinc (C.I.1033); (8) Durindone Red B400 Powder (I.C.I.) (C.I.1207).

Blue Standards.—(2) 0·5 per cent. Lissamine Violet 6BNS (I.C.I.) (C.I.717); (3) 0·6 per cent. Brilliant Indocyanine 6B (I.G.); (4) 1·1 per cent. Polar Blue G. Conc. (Gy.); (5) 0·5 per cent. Solway Blue R.S. (I.C.I.) (C.I.1076); (6) 2 per cent. Alizarine Light Blue 4GL (S.); (7) 4 per cent. Caledon Blue GCP300 Powder (I.C.I.) (C.I.1113); (8) 3 per cent. Indigosol Blue AGG (D. & H.).

FASTNESS TO PERSPIRATION.—It has been found possible to make up artificial test solutions representing acid and alkaline perspiration, based on the results obtained by Voss and McSwiney in their investigations on the composition of human sweat (*cf.* ANALYST, 1934, 59, 496). These solutions are:

* Obtainable from the Secretary, The Society of Dyers and Colourists, 32, Piccadilly, Bradford, Yorkshire. Price 7/6 net.

Acid Perspiration Liquor.—2.65 g. of sodium chloride and 0.75 g. of urea per l., brought to pH 5.6 with *N*/10 acetic acid.

Alkaline Perspiration Liquor.—0.839 g. of ammonium chloride, 1.732 g. of sodium chloride and 0.424 ml. of ammonia solution (sp.gr. 0.88) per l., brought to pH 7.8 with *N*/10 acetic acid.

A schedule of tests is given indicating the manner in which these solutions should be used.

FASTNESS TO WASHING.—“Four tests of increasing severity are prescribed and cover all degrees of severity from a mild home wash to a test representing the cumulative action of several severe power washes.” Two sets of standards are then given, one in the red series and the other in the blue.
