AN EASILY COPIED INK FOR GRAPHIC RECORDERS

There are many commercially available inks for graphic pen recorders which possess all the properties of good inks-- but they are not easily copied. The commercial inks come in colors of red, green, blue, or violet, which require the use of filters and very careful development in photocopying. Copying is made more difficult when legends printed in black lettering ink are added to charts with colored tracings. By mixing one part red with two parts green recorder ink (2), we have produced a black recorder ink which photocopies very well and at the same time retains its recording properties.

The new thermal-conductive method of dry-process copying (thermofax) (6) is very useful in producing quick (4-second) copies of records for cross-reference filing and distributing to colleagues. However, the commercially available recording inks do not contain enough heat-conducting substances to permit copying by this method. By adding 10 drops of Actinic Ink Concentrate (1) to the black mixture described above, we have produced a recording ink that is readily copied by all of the current photo- and dry-process copying methods.

This mixture of one part red and two parts green Esterline-Angus recorder ink with 10 drops of Actinic concentrate to the ounce has performed well. It has proved satisfactory at paper speeds ranging from 2 1/4 to 22 inches per hour in Harvard Cumulative Recorders equipped with Leeds & Northrup R-23 pens (5) and Pigeon Project Paper (4). The ink also performs well in the Varian model G-10 recorder equipped with the Leroy No. 00 pen (3) and Varian paper (7), and in the Esterline-Angus Operation Recorder equipped with Esterline-Angus' No. 82-C pens and its standard paper (2). Thus, the mixture appears to be the best general-purpose recording ink available at this time.

REFERENCES

1. Actinic Ink Concentrate. Phillips Process Co., 192 Mill St., Rochester 14, N. Y.
2. Esterline-Angus Ink for graphic records, No. 82-C pen points, chart paper. Esterline-Angus Co., Inc., Indianapolis 6, Ind.
3. Leroy No. 00 pen. Keuffel & Esser Co., Hoboken, N. J.
4. Pigeon Project Paper. C. E. Perry Co., Inc., 77 Washington St., Boston, Mass.
5. R-23 pens. Leeds & Northrup Co., Philadelphia, Penn.
6. "Thermo-Fax" copying machine. Minnesota Mining and Manufacturing Co., St. Paul 6, Minn.
7. Varian chart paper. Varian Associates, Palo Alto 2, Calif.

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