

DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
WASHINGTON

EXEMPT from automatic declassification
per E.O. 11652, Sec. 5(E)(2)
REASON / CTA 28, JAN 1978
Name: A Agency: 2020 Date: Review on:

ADDRESS REPLY TO
BUREAU OF STANDARDS

October 30, 1917.

Memorandum for Mr Frank V. Martenek,

I am transmitting seven samples which seem to be the most suitable in the list which you submitted. They are as follows:

- 1--
Sulphuric acid (1-5) 100 cc.
Sugar 2 gm
- Heating*
--2--
Water 90 cc.
Cobalt Chloride 10 gm
Glycerol 2 cc.
- 3--
Water 100 cc.
Ammonium chloride 15 gm
- 4--
Water 100 cc.
Copper Nitrate 10 gm.
- Heating*
--5--
Water 100 cc.
Potassium bromide 3 gm
Copper sulphate 3 gm
- Heating*
--6--
Water 100 cc.
Nickel chloride 2.5 gm
Nickel nitrate 2.5 gm
- 7--
Nickel chloride 3 gm
Cobalt chloride 3 gm
Water 100 cc.

Samples 1, 4, and 5 will doubtless exert a very corrosive action on steel pens, and therefore if suitable in other respects would have to be used with a quill pen.

If I observe any other samples which seem to possess any particular advantage, I will let you know, or if you will tell me just what characteristics you desire such a product to have, I will try to reproduce it,

Respectfully,

Am Heitzelmann
Asst. Chemist.

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By: **CR/GT**
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