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BLATNÝ, J; KOJECKÝ, Z., Dr; FISCHEROVÁ, E.

Czechoslovakia

II Internal Clinic PU -- Olomouc (II int. kliniky  
PU -- Olomouc); Director: Z. KOJECKÝ, Docent Dr.

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address: Forschungsinstitut fur makromolekulare Chemie,  
Brno (for Polachova).

TESTS

CZECHOSLOVAKIA

FISCHEROVA, E.; BLATNY, J.; 2nd Internal Clinic, Medical Faculty, Palacky University (II. Interni Klinika Lekarske Fakulty PU), Olomouc, Head (Prednosta) Prof Dr Z. KOJECKY.

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L 40001-66 EWP(e)/ENP(j)/EWP(t)/EPI IJP(c) JD/WB/RM/JH

ACC NR: AP6010661

(N)

SOURCE CODE: UR/0152/65/000/010/0030/0030

AUTHOR: Fishgang, F. Z. 67  
BORG: Azerbaydzhan Petroleum and Chemistry Institute im. M. Azizbekov  
(Azerbaydzhanskiy institut nefti i khimii)TITLE: Combined corrosion protection of underground aluminum gas conduits 17

SOURCE: IVUZ. Neft' i gaz, no. 10, 1965, 30

TOPIC TAGS: polyvinyl chloride, corrosion protection, aluminum, electric potential, cathode polarization, *INSULATING MATERIAL, GAS CORROSION*

ABSTRACT: In order to determine the limits of protective potentials in the cathodic polarization of aluminum shells (brand A2) insulated with a polyvinyl chloride (PVC) film, studies were made in natural saline soil with an 86% salt content (0.46% Cl<sup>-</sup>, 0.0048% CO<sub>3</sub><sup>=</sup>, 0.036% HCO<sub>3</sub><sup>-</sup>, 0.03% Ca<sup>+++</sup>, 0.2% Mg<sup>++</sup>, 0.13% Na). The experiment was carried out by using a potentiostatic cathodic polarization circuit. The range of potentials was -0.6, -0.68, -0.8, -0.9, -0.98, -1.1 V. Every day for 30 days, the current leakage was measured, and the constancy of the potentials was checked. At the end of the experiment, the volume resistivity of the PVC film dropped by 3 to 4 orders of magnitude (from 10<sup>13</sup> to 10<sup>9</sup> ohm cm). When the insulation was stripped off the shells, corrosion spots with a coating of corrosion products were noted on samples which had been at potentials of -0.98 and -1.1 V; the other insulated aluminum samples

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had retained a completely clean surface, despite a current leakage up to 450  $\mu$ A. Thus, it was shown that (1) the potential range in the cathodic protection of underground aluminum equipment insulated with PVC films had expanded, extending from -0.6 to -0.9 V, and (2) the decrease of the volume resistivity of the PVC film in cathodic polarization does not characterize the state of the aluminum surface under the insulation.

SUB CODE: 07/ SUBM DATE: 30Aug65

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Fischgold, R.

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 Steels with nitrogen. S. Bercu, A. Kathrein, and R. Fischgold. *Acad. rep. populare Romania, Studii cercetari* *mat.* 3, 887-90(1958).—N is an alloying element which can raise the anticorrosive properties of 18/8 and 12/12 steels. N stabilizes the austenitic structure at room temp., lowers the crit. rate of heating for the martensite transformation, prevents the intercryst. corrosion in Cr-Ni and Cr-Mn steels, and produces or improves the grain formation of steels high in Cr. Since it is difficult to alloy steels on a plant scale with N, a procedure is recommended: Prep. an alloy high in N, alloy to a steel free from N, and handle the new alloy first at temps. (to be found by trial and error) at which it shows a high degree of plastic deformation. 16 references. Werner Jacobson

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FIL'KINA, K. T.  
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