# Electrodeposition of Molydenum Alloys from Aqueous Solutions'

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#### ATEST HAZET

Nicked-molybdessum, cobalt-molybdessum, and iron-molybdessum alloys have been electrodesposited from aqueous solutions containing codium molybdate, the sulface of the codeposited metal, seddium citrare, and summation hydrecide. Typical baths were made up with 0.3 M/l of the codepositing metal sulface, 0.3 M/l of sodium citrate, varying amounts of redium stolybdate, and ammonium hydrecide to pH about 10.5. The saximum amount of molybdate, and ammonium bydroxide to pH about 10.5. The saximum amount of molybdatem in the electrodeposited alloys depends on the alloying setal. When a typical bath was used, stokel alloys were found to contain up to 20% setal, when a typical bath was used, stokel alloys the sum and iron alloys contained about 50% molybdenum, cobalt alloys contained about 50% to the sickel molybdenum bath, 50 60% for cobalt-molybdenum, and 50-30% for iron molybdenum. The effects of pH, concentration, temperature, and cathode current density on eachede current density on eachede current efficiency and alloy composition were studied.

These electrodeposited molyhercoun alloys were motaltic and either bright or light gray in appearance, with a large number of cracks in the bright deposits. Adherence of the deposit to well-cleaned flat authories seemed to be good, but adherence to taking or rode was poor; usually these deposits could be brashed off in flake or provider form.

#### **Іминовичеством**

The electrodeposition of molybdenum alloys containing iron, cobalt, or minted has been reported previously from this laboratory (1) and a patent has been issued (2). Yntema and Ksycki (3, 4) described the use of solutions containing either altphatic acids or their salts, or various fluorides to electrodeposit molybdonum alloys, Brenner and Burkhead (5) electrodeposited cobalt-molybdenum alloys from strongly alkaline solutions containing potassium carbunate, cobalt chloride, and sodium molybdate. Min (6) described the electrodeposition of chromium-molybdenum allows from a regular chromium plating both containing molybdenum-(VI) oxide. A tereary alloy consisting of molybdensure, tungeton, and cobalt has been electrodeposited from aqueous citante solutions by McElsree and Holt (7). The electrodeposition of nickelmolybdenum alloys from tartrate and citrate baths has been reported recently (8).

Seim and Holt (1) prepared their plating solutions using sodium molybriate, the sulface of the endepositing metal, citric arid, and ammonium hydroxide. In this work sodium citrate was used in place of citric arid, being chosen after studying several different complexing agents. An attempt was also made to find another reagent for adjusting the pH

Manuscript received September 4, 1933. This paper was prepared for delivery belows the Wrightswille Beach Meeting, September 13 to 26, 1951. of the plating solutions because of the volatility of ammonia.

#### Expense were Markons and Resource

The methods used were similar to those described previously (1) except that in some cases Na<sub>2</sub>MoO<sub>4</sub>, 2H<sub>2</sub>O was used instead of nehydrous Na<sub>2</sub>MoO<sub>4</sub>. The volume of platting solution used for each electrolysis was 250 pd.

In analyzing cobait-molybdomum and mickelmolybdosum deposits, the codeposited metal was always determined and unolybdoman was usually found by difference. Occasionally molyhdenum was determined by the lead molybelate method (9). When both metals were determined the analysis negative totaled 98 % or more. Several of the nickelmolytelenum deposits were heated in hydrogen to about 850°C and showed a loss in weight of only 0.5 %. Very few of the deposits obtained from the Fe-Mo bath were completely metallic, being covered is the center with a dark black material believed to be a molybdenum oxide; because of this, buth compopents of these allogs were determined, and the total percentage varied from 80-95 %, depending on the molybelegum content of the deposit. When several of the iron-molybelesson allows were heated. in hydrogen at about 850°C, the resulting loss in weight was S to 9 % and the total analysis was then close to 100 % (8.2 % loss in weight, 40.0 % Pc. 51.6% Mach.

Cathode current efficiencies were calculated using

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